

REU-VR1620W / VR2024W / VR2426W / VR2626W REU-VRM2630W

GAS PRESSURE SETTING AND DIAGNOSTICS INFORMATION

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



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-VR1620W	120	1.13 3.0	2.75 3.0	0.16	0.14	0.88	0.81
REU-VR2024W	160	1.13 3.0	2.75 3.0	0.16	0.16	0.91	0.83
REU-VR2426W	180	1.13 3.0	2.75 3.0	0.12	0.16	0.62	0.78
REU-VR2626W	180	1.13 3.0	2.75 3.0	0.12	0.16	0.71	0.88
REU-VRM2630W	190	1.13 3.0	2.75 3.0	0.12	0.16	0.71	0.88

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 right, 'OFF' towards left.

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 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 the pressure 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.

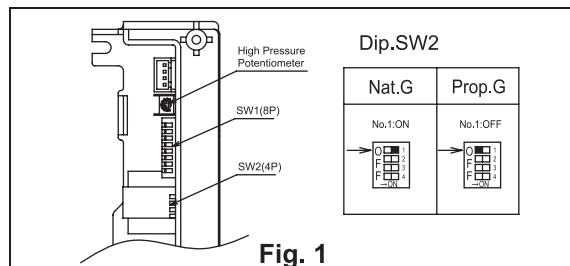


Fig. 1

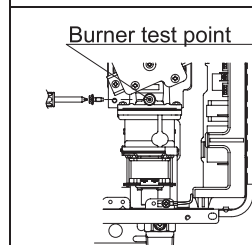


Fig. 2

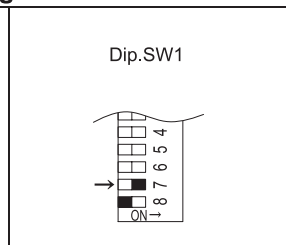


Fig. 3

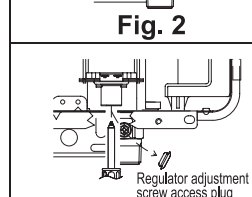


Fig. 4

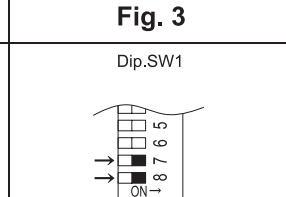


Fig. 5

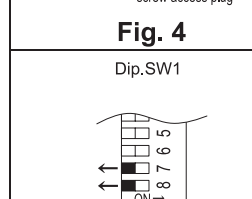


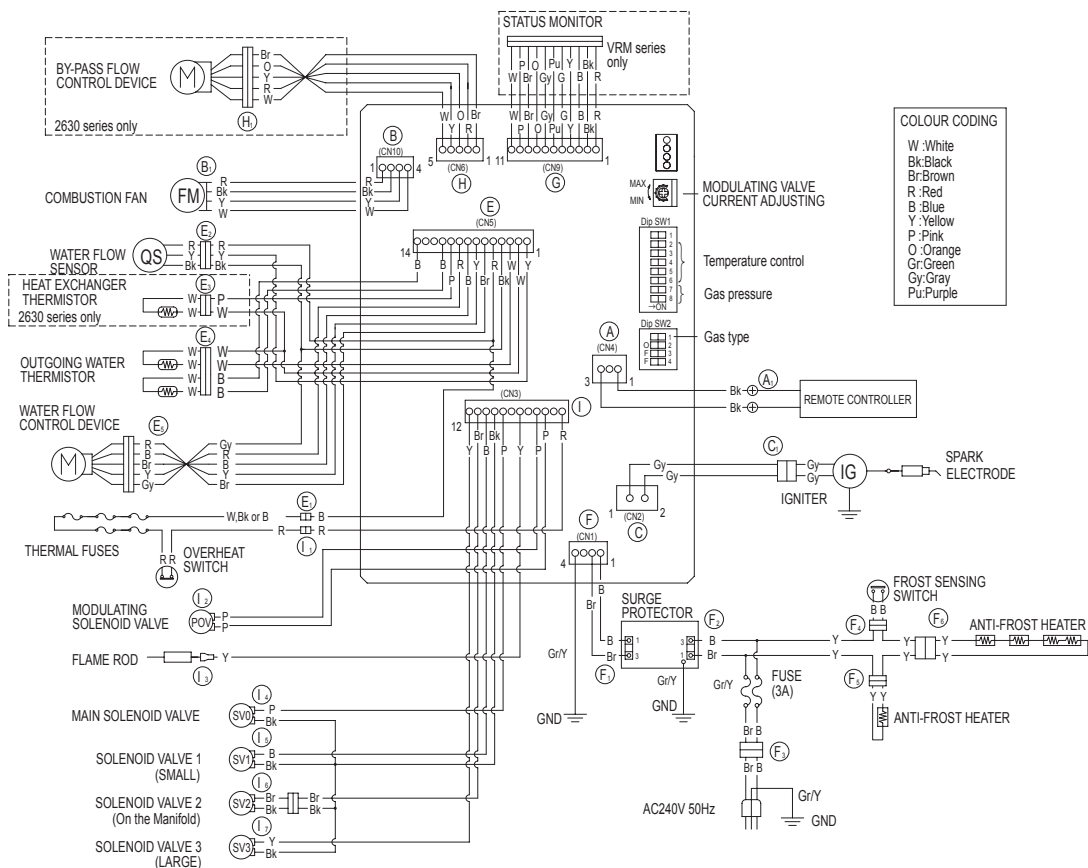
Fig. 6

Legend (Black section indicates position of switch)



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CIRCUIT DIAGRAM AND DIAGNOSTICS POINTS



DIAGNOSTIC POINTS

FLUID CHART No.	COMPONENT	MEASUREMENT POINT CN	WIRE COLOUR	NORMAL VALUE	A NOTE
①	SURGE PROTECTOR	F ₃	B-Br	AC207~264V	
②	WATER FLOW CONTROL DEVICE	E ₅	R-B	±DC11~13V (ONLY WHEN OPERATING)	OPERATE ELECTRICITY
			Y-Gy	BELOW DC1V(LIMITER ON)	FULL OPEN POSITION
			Br-Gy GND	DC4~6V(LIMITER OFF) BELOW DC1V(LIMITER ON) DC4~6V(LIMITER OFF)	FULL CLOSE POSITION
③	BY-PASS FLOW CONTROL DEVICE	H ₁	Br-W O-W Y-W R-W GND	DC12V(OPERATING DC2~6V)	2630 series only
				15~35Ω	
④	REMOTE CONTROL	A ₁	Bk-Bk	DC11~13V	
⑤	WATER FLOW SENSOR	E ₂	R-Bk	DC11~13V	ON2.4L/MIN (33Hz) OVER 1980PULSE/MIN
			Y-Bk GND	DC4~7V(PULSE 20~320Hz)	OFF 1.7L/MIN (23Hz) BELOW 1380PULSE/MIN
⑥	COMBUSTION FAN	B ₁	R-Bk	DC15~46V	
			Y-Bk	DC11~13V	
			W-Bk GND	DC5~10V (20~400Hz)	
⑦	FLAME ROD	I ₃	Y-FLAME ROD	OVER DC1μA	FLAME CONDITION
⑧	MODULATING SOLENOID VALVE	I ₂	P-P	DC2~15V 65~85Ω	
⑨	HEAT EXCHANGER THERMISTOR	E ₃	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	2630 series only
	OUTGOING WATER THERMISTOR	E ₄	W-W B-B		
⑩	THERMAL FUSES	I ₁	W-R (16 series)	BELOW 1Ω	
		E ₁	Bk-R (20 series)		
			B-R (24/26 series)		
⑪	IGNITER	C ₁	Gy-Gy	AC207~264V	
⑫	MAIN SOLENOID VALVE	I ₄	P-Bk	DC11~13V 37~43Ω	
⑬	SOLENOID VALVE 1 (SMALL)	I ₅	B-Bk	DC11~13V 35~41Ω	
⑭	SOLENOID VALVE 2 (On the Manifold)	I ₆	Br-Bk	DC11~13V 35~41Ω	
⑮	SOLENOID VALVE 3 (LARGE)	I ₇	Y-Bk	DC11~13V 37~43Ω	

