REU-KM3237WD/KM3237FFUD

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 FINITE PRESENTE FOR FUNIT IS SHITLOFF

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

APPLIANCE OPERATING PRESSURES TABLE 1

Gas pressure

Model name	Gas Inlet Pressure (Min./Max.)kPa		Forced Low kPa		Forced High kPa	
	Nat.G	Prop.G ULPG	Nat.G	Prop.G ULPG	Nat.G	Prop.G ULPG
REU-KM3237WD	1.13/ 3.0	2.75/ 3.0	0.18	0.27	0.58	0.80
REU-KM3237FFUD	1.13/ 3.0	2.75/ 3.0	0.22	0.30	0.65	0.90

Water pressure

Water Inlet Pressure (Min) kPa
220

COMMISSIONING

With all gas appliances in operation at maximum gas rate, the flowing inlet pressure at the incoming test point on the appliance should read 1.13 - 3.0 kPa on Natural Gas and 2.75 - 3.0 kPa on Propane Gas & ULPG. If the pressure is lower, the gas supply is inadequate and the appliance unit will not operate to specification. Check gas meter, regulator & 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' power supply.
- 3. Remove the front cover from the appliance.
- Check gas type switches (Fig.1) are in the correct position (dip switch 1 of SW2 'ON' = NG, 'OFF' = Prop.G & ULPG)

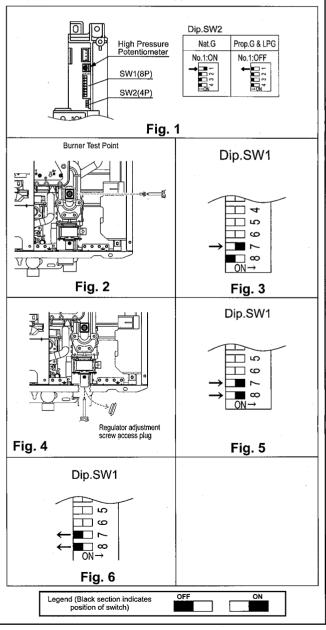
Note: 'ON' towards right, 'OFF' towards left.

- Attach pressure gauge to burner test point, located on the gas manifold. (Fig. 2).
- 6. Turn 'ON' the gas supply.
- 7. Turn 'ON' power supply.
- 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).
- Set appliance 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.

- 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 appliance 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).

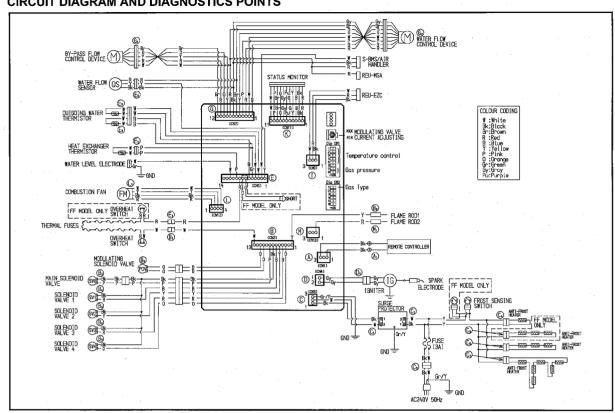
- 15. Close hot water tap.
- 16. Turn 'OFF' the gas supply and power supply.
- 17. Remove pressure gauge, and replacing sealing screw.
- 18. Turn 'ON' the gas supply and power supply.
- 19. Operate unit and check for gas leaks at test point.
- 20. Replace the front cover of the appliance.





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CIRCUIT DIAGRAM AND DIAGNOSTICS POINTS



DIAGNOSTICS POINTS

COMPONENT	CN	WIRE COLOUR	RANGE OF VALUE	REMARKS	
REMOTE CONTROLLER	Aı	8k-8k	DC11-13V		
THERMAL FUSE	B ₁ /E ₁	W-R	BELOW 1 Q		
MODULATION VALVE	B ₂	0-0	DC2-15v / 67-82Ω		
MAIN SOLENOID VALVE	В₃	P-Bk	DC11-13v / 37-43Ω		
SOLENOID VALVE 1	B₄	B-Bk	DC11-13v / 37-43 n		
SOLENOID VALVE 2	B ₅	Y-Bk	DC11-13v / 37-43Ω		
SOLENOID VALVE 3	Be	R-Bk	DC11-13v / 37-43Ω		
SOLENOID VALVE 4	B ₇	0-8k	DC11-13v / 37-43Ω		
FLAME ROD 1	Вв	Y-FR	OVER 1 4 (DURING OPERATION)		
FLAME ROD 2	Mı	R-FR	OVER 1 # A (DURING OPERATION)		
SURGE PROTECTOR	Cı	W-Bk	AC207-264v		
SURGE PROTECTOR	C2	W-Bk	AC207-264v		
MAIN POWER CODE	Сз	W-Bk	AC207-264v		
IGNITOR	Di	Gy-Gy	AC207-264v (DURING IGNITION)		
HEAT EXCHANGER TH	E ₂	W-W	15℃:11,4-14,0kΩ		
OUTGOING WATER TH1	E ₃	W-W	- 30°C:6.4-7.8kn 45°C:3.6-4.5kn		
OUTGOING WATER TH2	E₄	B-B	15℃:11.4-14.0kΩ - 30℃:6.4-7.8kΩ - 30℃:3.6-4.5kΩ - 60℃:2.2-2.7kΩ - 100℃:0.6-0.8kΩ		
WATER FLOW SENSOR	Es	R-Bk	DC11-13v	ON: 2.4L/MIN(33Hz) OVER 1980 PULSE/MIN OFF: 1.7L/MIN(23Hz) OVER 1380 PULSE/MIN	
		Y-Bk	DC4-7V (PULSE 20-300Hz)		
BY-PASS FLOW CONTROL DEVICE	G ₁	Br-W DC12V (DC2-6V DURING OPERATION)			
		Y~¥i R~¥i	15-35Ω		
WATER FLOW CONTROL DEVICE		R-0			
		P-0	DC11-13V		
		B-0	DC11-13V (DC5-7V DDURING OPERATION)		
		W-0			
	ا ہ ا	R-P	20 500		
	G₂	B-W	30-50 Ω		
		Y-Gý	BELOW DC1V (LIMITTER ON)	FULL OPEN POSITION	
			DC4-6V (LIMITTER OFF)		
		Br-Gy	BELOW DC1V (LIMITTER ON)	FULL CLOSE POSITION	
			DC4-6V (LIMITTER OFF)	POLL GLOSE POSTITON	
COMBUSTION FAN	Lı	R-Bk	DC15-46V		
		Y-Bk	DC11-13V		
		W-Bk	DC5-10V (PULSE 20-400Hz)		

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