

# REU-KM2635WD/KM2635FFUD

## 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

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-KM2635WD	1.13/ 3.0	2.75/ 3.0	0.15	0.23	0.71	0.87
REU-KM2635FFUD	1.13/ 3.0	2.75/ 3.0	0.18	0.25	0.73	0.96

#### Water pressure

Water Inlet Pressure (Min) kPa
250

### 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.
4. 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.**

5. 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.
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 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.

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 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.

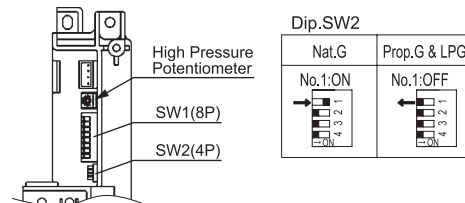


Fig. 1

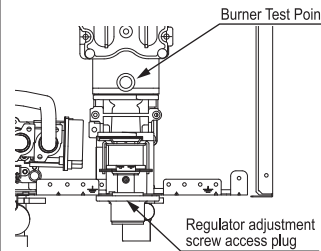


Fig. 2

Dip.SW1

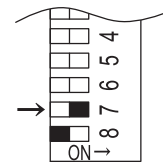


Fig. 3

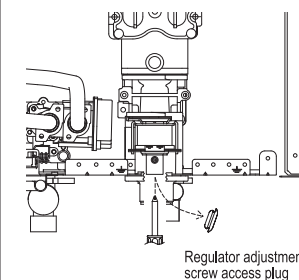


Fig. 4

Dip.SW1

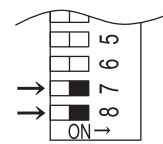


Fig. 5

Dip.SW1

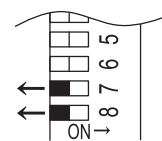


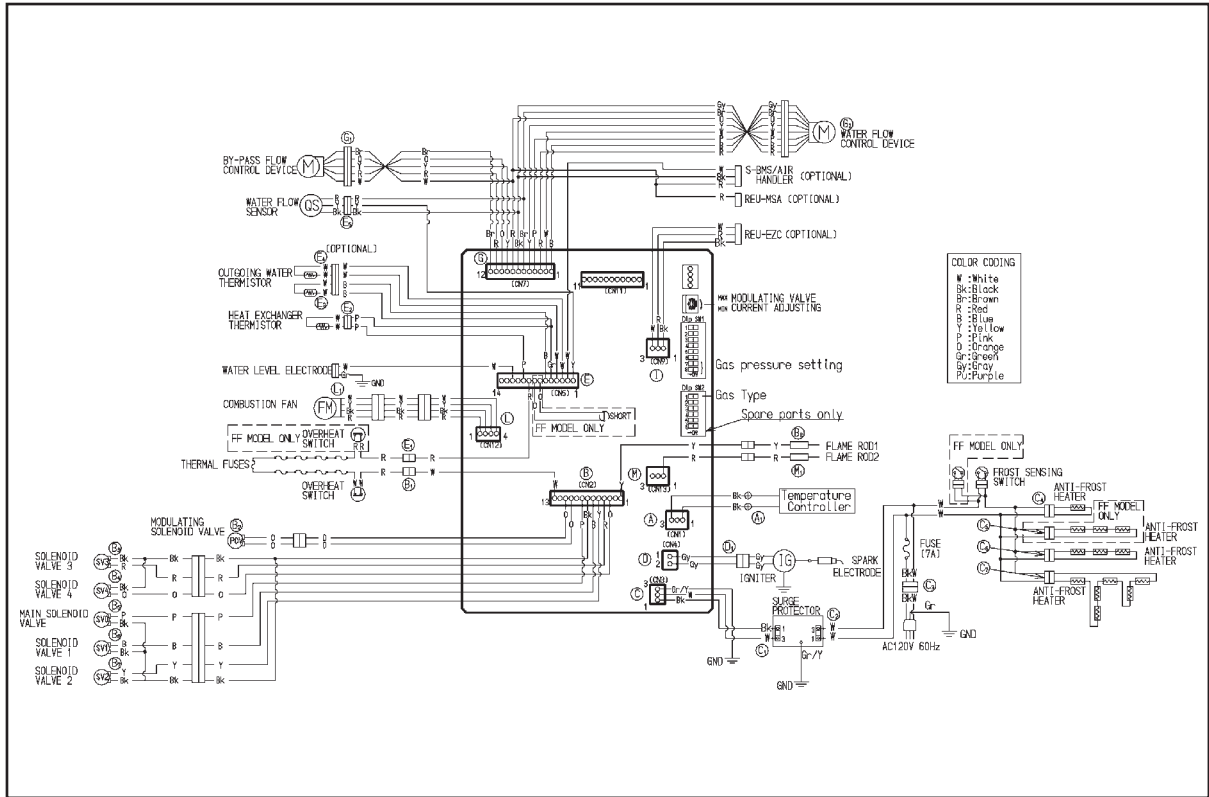
Fig. 6

Legend (Black section indicates position of switch)



# REU-KM2635WD/KM2635FFUD

## CIRCUIT DIAGRAM AND DIAGNOSTICS POINTS



## DIAGNOSTICS POINTS

COMPONENT	MEASUREMENT POINT		RANGE OF VALUE	REMARKS
	CN	WIRE COLOUR		
REMOTE CONTROLLER	A1	Bk-Bk	DC10-13V	
THERMAL FUSE	B1/E1	W-R	BELOW 1Ω	
MODULATION VALVE	B2	O-O	DC2-15V / 67-82Ω	
MAIN SOLENOID VALVE	B5	P-Bk	DC11-13V / 37-43Ω	
SOLENOID VALVE 1	B6	B-Bk	DC11-13V / 37-43Ω	
SOLENOID VALVE 2	B7	Y-Bk	DC11-13V / 37-43Ω	
SOLENOID VALVE 3	B3	R-Bk	DC11-13V / 37-43Ω	
SOLENOID VALVE 4	B4	O-Bk	DC11-13V / 37-43Ω	
FLAME ROD 1	B8	Y-FR	OVER 1μA (DURING OPERATION)	
FLAME ROD 2	M1	R-FR	OVER 1μA (DURING OPERATION)	
SURGE PROTECTOR	C1	W-Bk	AC207-264V	
SURGE PROTECTOR	C2	W-Bk	AC207-264V	
MAIN POWER CODE	C3	W-Bk	AC207-264V	
IGNITOR	D1	Gy-Gy	AC207-264V (DURING IGNITION)	
HEAT EXCHANGER TH	E2	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 100°C: 0.6-0.8kΩ	
OUTGOING WATER TH1	E4	W-W		
OUTGOING WATER TH2	E3	B-B		
WATER FLOW SENSOR	E5	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	G1	Br-W	DC12V	
		O-W	(DC2-6V DURING OPERATION)	
		Y-W		
		R-W	15-35Ω	
WATER FLOW CONTROL DEVICE	G2	R-O	DC11-13V	
		P-O	(DC5-7V DURING OPERATION)	
		B-O		
		W-O		
		R-P	30-50Ω	
		B-W		
COMBUSTION FAN	L1	Y-Gy	BELOW DV1V (LIMITER ON)	FULL OPEN POSITION
		DC4-6V (LIMITER OFF)		
		BELOW DV1V (LIMITER ON)		FULL OPEN POSITION
		DC4-6V (LIMITER OFF)		
		R-Bk	DC6-45V	
		Y-Bk	DC11-13V	
		W-Bk	DC5-10V (PULSE 20-400Hz)	

U290-658 (00)



080 00012 30597 3