



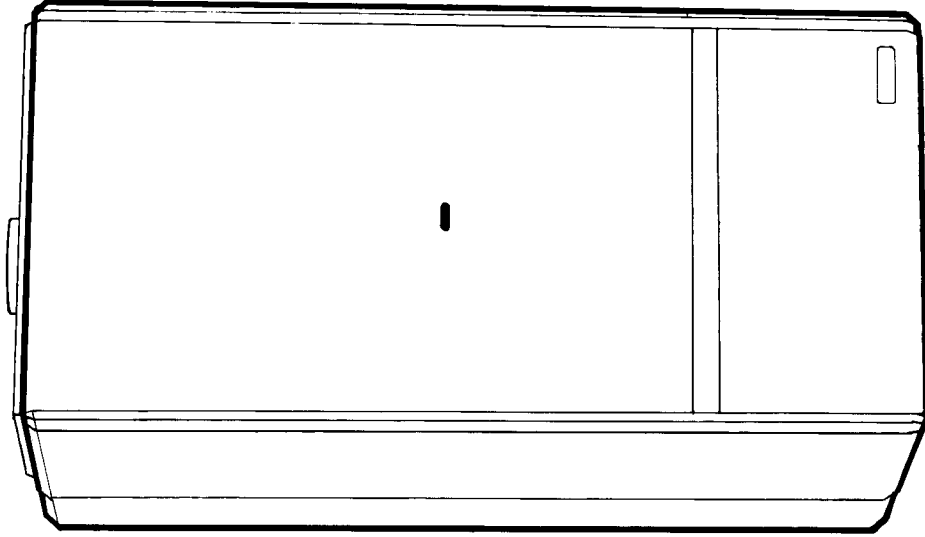
## 24/96 RSE Flowmatic

# Users Instructions

SERIAL No. NG 2809  
TG 0001  
LPG 439  
UPWARDS

G C No. 4709408  
British Gas Tested and Certified  
NWC No. 89 11 061

HAND THESE  
INSTRUCTIONS  
TO THE USER.



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**BEFORE ATTEMPTING TO LIGHT APPLIANCE PLEASE MAKE SURE THAT IT IS CHARGED UP WITH WATER WITH THE NEEDLE POINTING BETWEEN 1bar AND 1.5bar ON THE PRESSURE GAUGE (7)**

Gas Safety (Installation and Use) Regulations 1984

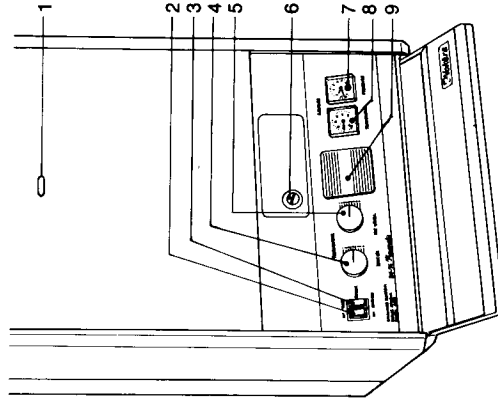
In your own interests and that of safety, it is the law that all gas appliances are installed and serviced by a competent person in accordance with the regulation.

**Gas Leak or Fault**

IF A FAULT OR GAS LEAK IS SUSPECTED, TURN OFF THE APPLIANCE AND CONTACT YOUR LOCAL GAS REGION OR SERVICE ENGINEER.

**INTRODUCTION**

Your Vokéra 24/96 Flowmatic is a central heating boiler supplying central heating and instantaneous domestic hot water only. In the winter when both Central Heating and Hot Water are needed the central heating circulation stops when hot water is being drawn off. This normally will not affect the level of heating.



**Boiler Location**

Clearances

- Minimum - above 50mm (2in) (above flue)
- Minimum - below 300mm (12in)
- Minimum - in front 600mm (24in)
- Minimum - At sides 75mm (3in)

If fitted in a compartment, the purpose provided ventilation openings must not be blocked, and should be checked periodically to ensure this. The compartment should not be used as a storage cupboard (e.g. for food).

**NEVER HANG CLOTHES ETC. OVER THE APPLIANCE.**

- 1 Pilot Sight Glass
- 2 On/Off Switch
- 3 Timed/Summer/Constant Switch
- 4 Heating Thermostat
- 5 DHW Thermostat
- 6 High Limit Reset
- 7 Pressure Gauge
- 8 Temperature Gauge
- 9 Time Clock Aperture

The Internal Time Clock is an optional extra

Note: Timed/Summer/Constant Switch (3). If the appliance is not fitted with a Vokéra Time Clock (in position 9 on diagram) the switch must always remain in the Constant position when Central Heating is required.


**ELECTRICITY SUPPLY**

**WARNING: THIS APPLIANCE MUST BE EARTHED**

Connection should be made to a 240v~ 50Hz supply. The appliance must be protected by a 3amp fuse if a 13amp (BS 1363) plug is used. If any other type of plug is used a 5amp fuse in the circuit is necessary.

**To connect a plug:**

As the colour of the wires in the mains lead to this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:-

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol  or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Lower the controls fascia cover at base of appliance.

**1.0 Hot Water Only**

Ensure electricity Supply is on.

**1.1** With the boiler ON/OFF switch 'ON' and the selector switch (3) in the summer position, the main burner will ignite whenever water is drawn from the tap. (view through sight glass)

**1.2** Should the boiler fail to ignite turn the boiler on/off switch to off for a period of at least 10 seconds before drawing water again.

**1.3** The temperature of water at the tap can be varied by adjusting the water flow rate at the tap. The hot water thermostat (5) will govern the maximum temperature.

Setting 1 approx 60°C Setting 9 approx 80°C. The temperature gauge (7) indicates the temperature of the central heating water, not the tap water.

**2.0 Heating and Hot Water**

Ensure Electricity is on.

**2.1** With the boiler ON/OFF switch 'ON' turn the appliance Timed/Summer/Constant switch (3) to constant (if external controls are fitted e.g. timeclock and/or room thermostat ensure they call for heat) after a short delay period (approx 2 mins) the boiler will go through an ignition sequence and the burner will light. (view through sight glass (1)).

**2.2** Should the boiler fail to ignite turn the boiler ON/OFF switch to off for a period of at least 10 seconds and repeat 2.1 above.

**2.3** Adjust the thermostat knob (4) to suit the weather; 1 is the lowest setting 9 is the highest.

**N.B.** (i) For the quickest heat up of the premises the highest setting is needed at first, turning down later.

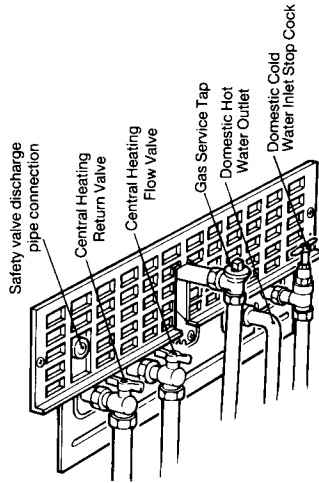
(ii) When Room Thermostats are used it may be best to leave the boiler thermostat at a high setting and set the room thermostat as required.

**3.0 Safety Limits**

**3.1** System pressure

The water pressure gauge (7) must read between 1bar and 1.5 bar when the system is cold. Leaks or radiator venting will reduce this. Call in your service engineer or installer if excessive topping up of the system to restore pressure is necessary. A built-in safety valve operates if boiler pressure exceeds 3bar whether hot or cold. If the safety valve operates (water/steam discharges to drain) switch off and call in the Installer or Service Engineer.

**3.2** If the appliance water temperature rises too high, a safety cut-out operates to extinguish the burner. This may be reset by unscrewing the black cap and pressing the reset button. If the cut-out operates again, the appliance must be checked by a competent person, before relighting.



View of underside of appliance

**N.B.** The central heating flow and return valves have a red handle which is vertical when open and horizontal when closed. Leave in the vertical (open) position.

**4.0 Shutting Down the System**

For short periods: turn off at boiler on/off switch (2)  
For longer periods also: turn off gas cock and turn off main electricity supply to boiler.

However, if the building is vacated when there is a risk of freezing shut down the boiler as described and drain the system: Open all heating radiator valves and drain through the cocks usually provided at the lowest point of the system. To ensure draining of radiators open radiator air cocks remembering to close them when the operation is complete.

Alternatively, install a Frost Stat and leave the mains electricity supply turned on.  
**N.B.** Refilling a sealed system must be undertaken by a competent person following approved procedures.

**5.0 Relighting the Boiler**

Relight by following steps 1.0 or 2.0 given previously, after ensuring that refilling of the sealed system has been carried out.

**6.0 Cleaning the Outer Case**

Use a clean damp cloth. Do not use abrasive cleaners.

**7.0 Spare Parts and Servicing**

Your Vokèra 24/96 Flowmatic should be serviced annually. Please contact your local Vokèra Service Department, your local Gas Region or a competent installer.

**8.0 Vokèra Time Clock**

24 hour version and digital 7 day version.

**8.1** When a Vokèra Time Clock is fitted in the boiler fascia it can be used to programme the central heating ON and OFF times.

**8.2** Timed/Summer/Constant Switch  
For the time clock programme to operate the switch (3) must be in the Timed position.

The central heating will operate regardless of the Time Clock programme if the Switch (3) is in the Constant position.

**9.0 Setting the time Clock (24 hour version)**

Setting the time  
The time of day can be set by grasping the outer edge of the black dial and turning it in a clockwise direction until the correct time is in line with the white pointer.

Setting 'Switching times'  
The 'ON' periods are set by sliding the tappets adjacent to the time periods required to the outer edge of the dial.

The tappets which remain at the centre of the dial will be the 'OFF' periods.  
**N.B.** The smallest switching time (ON or OFF) is 15 minutes.

**10.0 Vokèra Time Clock (Digital 7 day version)**

The Vokèra digital clock has, besides the normal individual daily setting facility, a 'group timing' feature. 'Group timing' allows for any single time slot of the 12 available to be repeated over one of the following four periods:-  
**MONDAY TO FRIDAY**  
**MONDAY TO SATURDAY**  
**MONDAY TO SUNDAY (day display blank)**  
**SATURDAY AND SUNDAY**

\*\*\* **THE DISPLAY WILL NOT SHOW UNTIL THE CLOCK HAS BEEN CONNECTED TO MAINS POWER FOR APPROXIMATELY TWO MINUTES** \*\*\*

**Use of the Timer**

**Setting the time**

1. Press and hold the button marked (A) whilst carrying out steps 2,3 and 4.
  2. Set hour of day using h+ button.
  3. Set minute of day using m+ button.
  4. Set day of week by repeatedly pressing button marked 'DAY'.
  5. Releasing (A) button starts time switch running.
- Before entering any programme draw up a chart to arrange the settings required and enter in a chronological order, as on read back the programme displays in the order of entry.

**Programming of 'Switching On' Operations**

- (a) Press button marked 'timer' once. The time of day --:-- appears from the display. **TIMER ON** --:-- appears.
- (b) Press button marked 'DAY' until the day or group of days requiring setting are displayed.
- (c) Set the 'ON' time of programme required by using 'h+' and 'm+', buttons for hours and minutes.

Please read the notes at the end of these instructions if you wish this switching time to be carried out on several days.

Again press button marked 'TIMER', so that the command will be incorporated in the programme storage compartment. Symbol 'TIMER OFF' --:-- will appear.

**Programming of 'Switching Off' Operations**

- (a) Symbol 'TIMER OFF' --:-- is visible in the display. Now insert the 'OFF' time of the programme required using 'h+' and 'm+', buttons for hours and minutes.
- (b) Press button marked 'DAY' until the day or group of days requiring setting are displayed.
- (c) In order to insert further switching times 'ON or OFF' operate key 'TIMER' once or several times respectively. The display shows a vacant storage space; for instance timer ON --:--.

Input of 'on/off' times as described above may be carried out. 6 'on/off' programmes can be set. Press the button marked (A) on completion of programme settings.

**Notes**

**Multiple Week-day Switching Groups**

Apart from individual week days, key 'DAY' also serves to operate multiple day combinations.

1. Monday to Friday
2. Saturday and Sunday
3. Monday to Saturday

If no particular week-day is combined with the switching commands, they will be carried out daily.

Once a single day or one of these multi-day-combinations is incorporated in the storage compartment as part of the programme, this means that the programmed switching order will be carried out on each of these week-days at the same time.

#### **Alterations or Checking of Switch Commands**

For the purpose of alteration or checking key 'TIMER' serves to bring the individual programmed switching commands successively into the display at any time. Alterations are carried out by 'overwriting' the individual command. To achieve this, follow the procedure for 'SWITCHING ON AND OFF' (Programming of switching times).

#### **Cancellation of Switching Commands**

If keys 'h+' and 'm+' are used to overwrite a switching command in such a way that the hour and/or minute area in the display shows the symbol '---', the input is no longer effective, but it remains in the storage compartment as an inactive part.

#### **Switching Condition Indication**

The actual switching condition is shown in the displays as 'ON' or 'OFF' together with the time of day.

#### **Pre-Selection Switch** (Hand Symbol)

Independent of the programming, it is possible - at any given time - to advance the next following switching command by depressing the key marked with a hand symbol on the assumption, however, that the time of day has already been set.

#### **Running Reserve**

In the case of mains electricity failure, the built-in battery ensures that the actual time of day continues to operate and that the automatic switching programme remains intact.

The instrument can be programmed completely even without mains supply, provided the back-up battery is fully charged (charging time 70 hours).



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