

38 BIRCHFIELDS ROAD - BOILER INSTRUCTIONS

Instructions for use

Vaillant

Combi-boiler

Natural draught
balanced flue type

VCW GB 221 H

GC.No. 47 044 14

Open-flued type

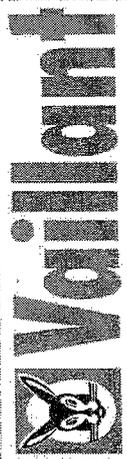
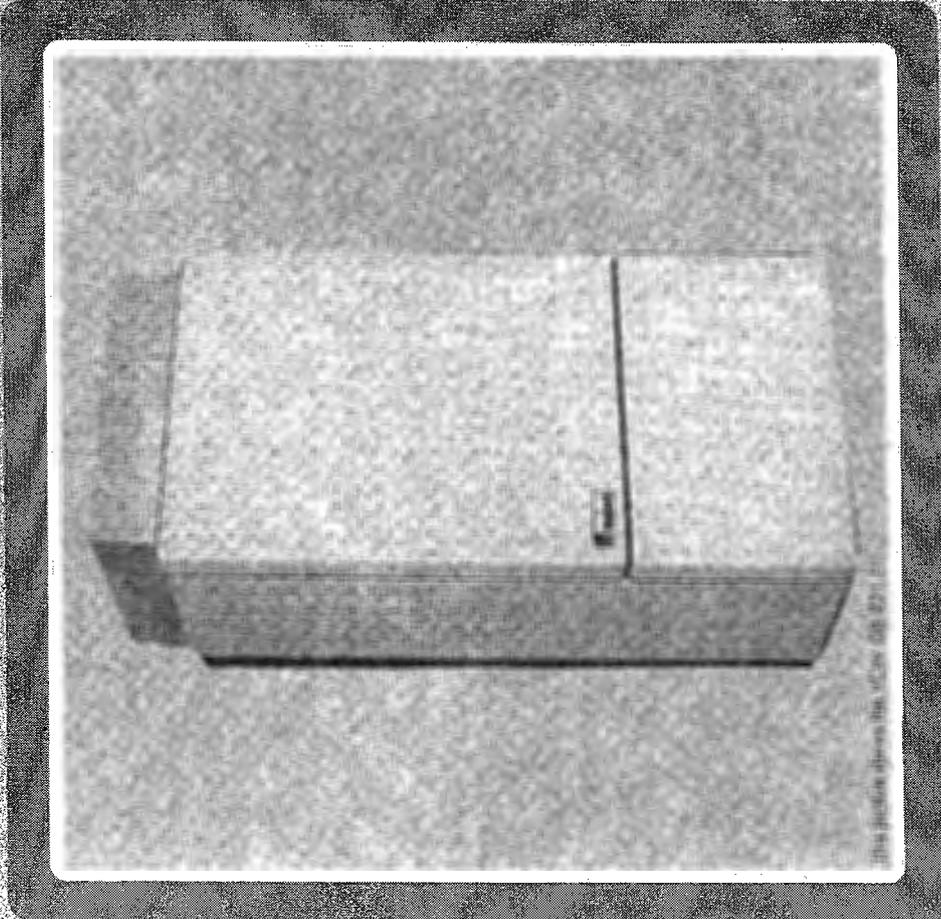
VCW GB 240 X H

GC.No. 47 044 15

Open-flued type

VCW GB 280 X H

GC.No. 47 044 16



Dear Customer!

All you need to know about your Vaillant Combi is contained in these instructions, so that you will find:

In the left hand column, a series of illustrations demonstrating step by step the whole procedure.

In the centre column all necessary information which explains the illustrated procedure.

In the right hand column, additional information which may prove useful for servicing and handling.

Introduction

Please note that your Vaillant COMBI Compact boiler must be installed by a competent person (i. e. CORGI registered), in accordance with the current issue of the Gas Safety (Installation and Use) regulations 1994, as amended.

Your boiler requires air for combustion and to ensure safe and efficient operation of the flue. Do not obstruct any purpose provided ventilation openings to the outside air. This appliance must be earthed.

If the appliance is installed in a compartment do not obstruct any purpose provided ventilation openings, and do not use for storage purposes.

If a gas leak or fault exists, or is suspected, turn off the appliance and consult your local Gas Region or Service Engineer.

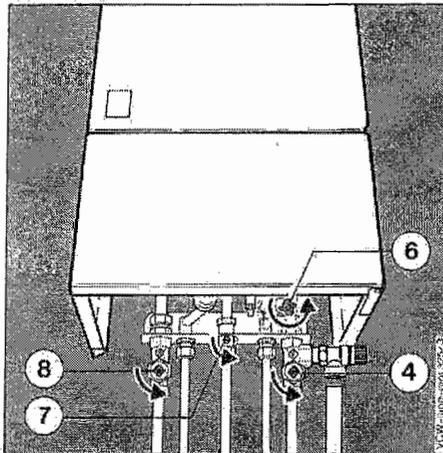
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- 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 \oplus or coloured 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.

The following minimum clearances around the appliance case must be maintained.

80 mm (3.2") either side. The side clearance may be reduced to 25 mm (1") from removeable fittings such as kitchen units.
150 mm (6") below
100 mm (4") above

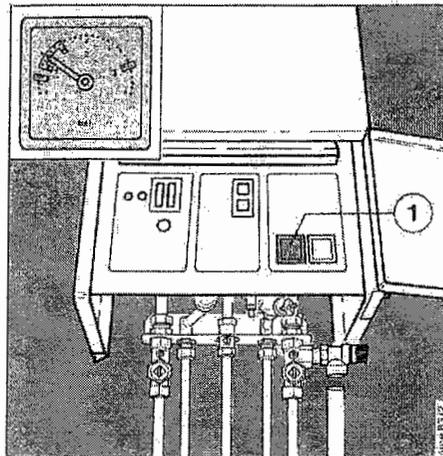
PREPARATION FOR STARTING



Check of supply pipes

Ensure cold water shut-off valve ⑥ and both the flow and return service cocks ⑧ and ④ are open. Also check that the gas service cock ⑦ is open. Turn cold water shut off valve anticlockwise to open.

Normally the flow, return and gas service cocks are open, and the line marking will have the same direction as the pipe.

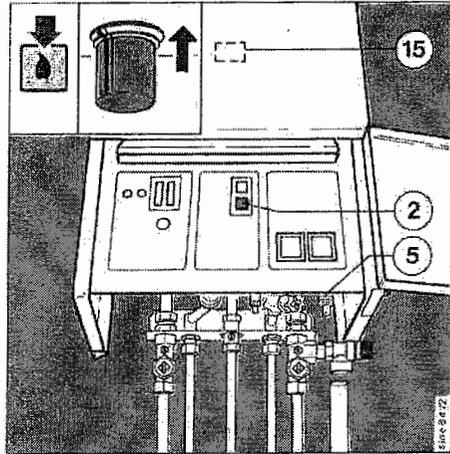


Check of water contents

Open the lower door by pulling outwards. Check the water contents of the system. The white hand of the pressure gauge ① should be within the green band (about 1 to 1.5 bar). If the hand is on or below the mark (about 0.8 bar) when the system is cold, then your installer should be called to refill the system. (The pressure may increase when the appliance is in use).

Topping up should only be carried out by a service engineer or your installer.

PREPARATION FOR STARTING



To light the pilot

Open both doors to the appliance. Press the push button ② hold it down. Light the pilot by operating the piezo ignitor ⑤ several times.

Check that the pilot is alight by looking through the viewing window ⑬.

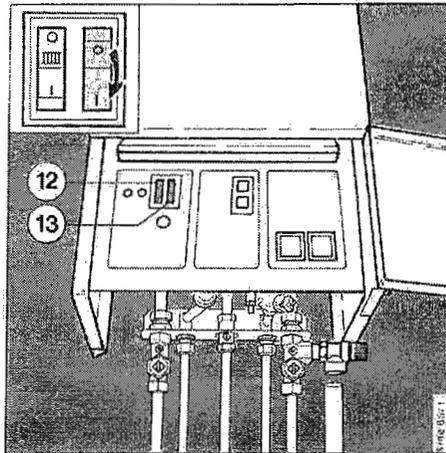
After pilot ignition, keep the push button ② depressed for about 10 seconds.

If the pilot does not light, hold the button ② depressed for a longer period to allow any air to escape from the pilot line and operate the piezo igniter several times. If the pilot flame goes out when button ② is released,

WAIT AT LEAST 3 MINUTES

before repeating the pilot lighting procedure.

DOMESTIC HOT WATER OPERATION



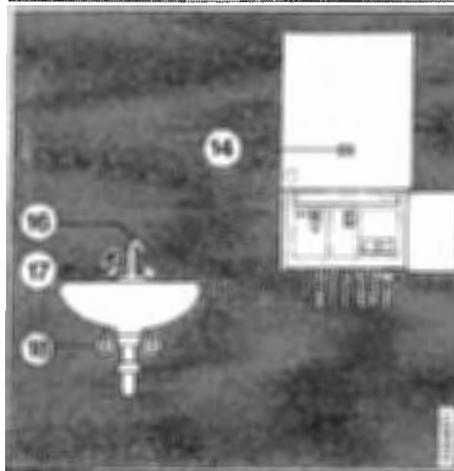
Switch on main switch

Ensure heating switch (12) and main switch (13) are off (position 0). Turn the electricity supply on. Push main switch (13) into position I. (main switch lights up).

At this stage your Vaillant Combi is ready to supply hot water. When the main switch lights up, the appliance can be operated.

Attention

The main switch should only be operated if – as described under "Check water contents" on page 3 – the appliance is correctly filled with water. Otherwise the heating pump **may** be damaged.



To obtain hot water

On opening hot water tap (17) at a supply point (basin, shower, sink) the Combi will light after an initial short delay. With the tap fully open, you should receive the maximum flow rate of hot water. With the tap only approx. half open, a lower flow rate may be achieved. By mixing in cold water you can adjust to any required lower temperature. On closing the tap the appliance automatically cuts out or changes to heating, if set to do so. After opening the upper door by pulling outwards, the operation of the burner can be seen through viewing window (14).

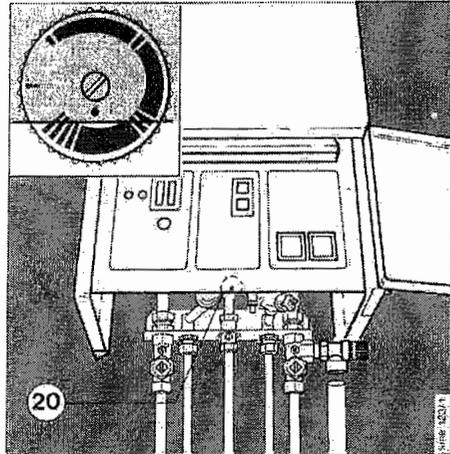
If the hot water flow rate appears reduced, check

- cold water shut-off valve is completely open.
- any valves fitted between tap and appliance are open.
- spout outlet is not blocked.

Note: Boiler will not light at very low flow rates.

The supply of hot water takes precedence over the heating system, yet has no disturbing effect on the steady heating of your rooms for normal periods of use.

TEMPERATURE SELECTOR · DOMESTIC HOT WATER

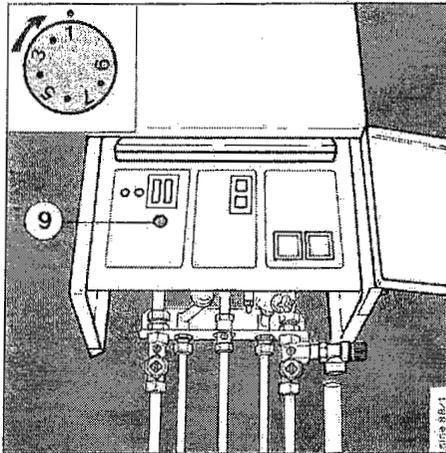


Set the domestic hot water temperature selector 20 as follows:

The domestic hot water temperature can be increased by reducing the water flow rate from the appliance. Turn the knob anti-clockwise.

The domestic hot water temperature can be reduced by increasing the water flow rate from the appliance. Turn the knob clockwise.

HEATING OPERATION



Set the flow thermostat

The flow thermostat knob (9) adjusts the operating temperature of the boiler for central heating.

Spring and Autumn:
Winter

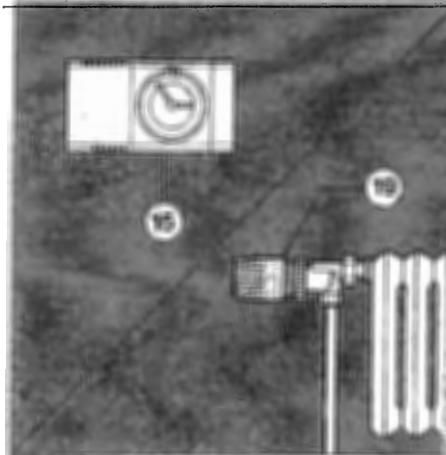
6 to 7
8 to 9

Turn the knob:

Clockwise to Increase boiler temperature, the maximum setting is 9.

Anti-Clockwise to Decrease boiler temperature, the minimum setting is 1.

For optimum control of your heating system the following settings are recommended:

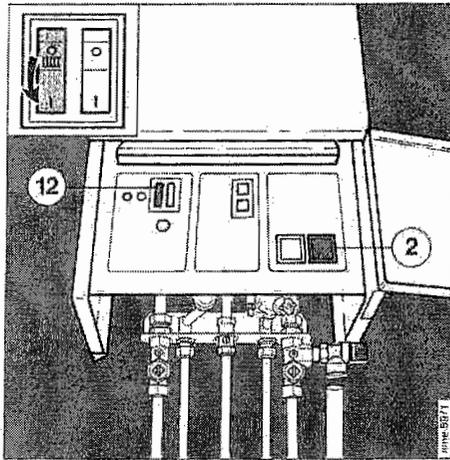


Setting room temperature

Set the room thermostat (15) or thermostatic radiator valve (16) according to the instructions supplied with the control.

The room thermostat or thermostatic radiator valves will provide more accurate and economic room temperature control than just the boiler thermostat.

HEATING OPERATION



Switching on the heating switch

Push the heating switch ⑫ to I. The central heating system will then start if heat is required. The system will now operate automatically and controls the room temperature according to the temperature selected on the boiler thermostat or external controls.

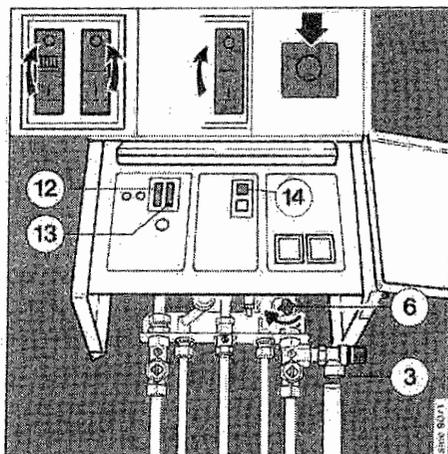
The flow thermometer ② indicates the temperature of the water in the central heating circuit, NOT of domestic hot water. On this setting your Vaillant Combi will also provide domestic hot water.

Note:

In the summer time, when central heating is not required, push heating switch ⑫ to position O (OFF).

On turning the room thermostat or boiler thermostat to a higher setting, the boiler may not fire immediately. This is due to the integral "anti-cycling" device in the boiler preventing rapid on and off operation of the boiler.

SHUTTING DOWN · CARE AND MAINTENANCE · FROST PROTECTION



To turn off the boiler

To turn off the central heating and hot water for short periods of time push the main switch ⑬ to position '0'.

To turn off the the central heating only switch off by pushing the heating switch ⑫ to position '0'. (Normal position during summer time!)

To turn off central heating and hot water for longer periods of time push the main switch ⑬ to position '0' and also press the push button ⑭ to shut off the pilot.

Should you leave for a longer time (i.e. summer holidays) you should also close the cold water shut-off valve ⑥, isolate the electrical supply and turn off the gas supply.

The pressure relief valve ③ is provided for safety reasons and must not be interfered with.

Note:

If outdoor temperatures are low, the high efficiency of the appliance (energy saving) may lead to vapour formation on the external terminal of the flue duct. This is a normal physical phenomenon!

Care and Maintenance

Clean the outer casing of the boiler with a damp cloth and a little soap. Do not use any abrasive or solvent cleaning material which could damage the casing or plastic fittings.

To ensure continued efficient operation of the appliance, it is recommended that it is checked and serviced as necessary at regular intervals. The frequency of servicing will depend upon the particular installation conditions and usage, but in general once per year should be adequate. It is the law that all servicing work is carried out by a competent person such as British Gas or other Gorgi registered person. Refer to the label on the appliance "Advice, Service, Repairs" for details of who to contact.

Frost Protection

Please ensure that, if you are absent during a period of frost, the central heating system

remains in operation and the rooms are kept above freezing point.

It must then be remembered, however, that the appliance will be automatically switched off by the built-in monitoring devices if certain faults occur, e.g. interruption in the energy supply (gas, oil, electricity) or faults in the flue gas system.

Alternatively, you can drain both the central heating system and the appliance. We do not recommend the addition of anti-freeze to the system water. This could lead to deterioration of seals and diaphragms as well as to noisy operation, for which – including any consequential damage – we cannot accept any responsibility.

FUEL SPILLAGE SENSOR (only for VCW GB 240, 280 X)

These Vaillant open flued central heating boilers are fitted with a flue spillage sensor. In the event that flue gases are not properly drawn into the flue system the flue spillage sensor will automatically shut down the appliance.

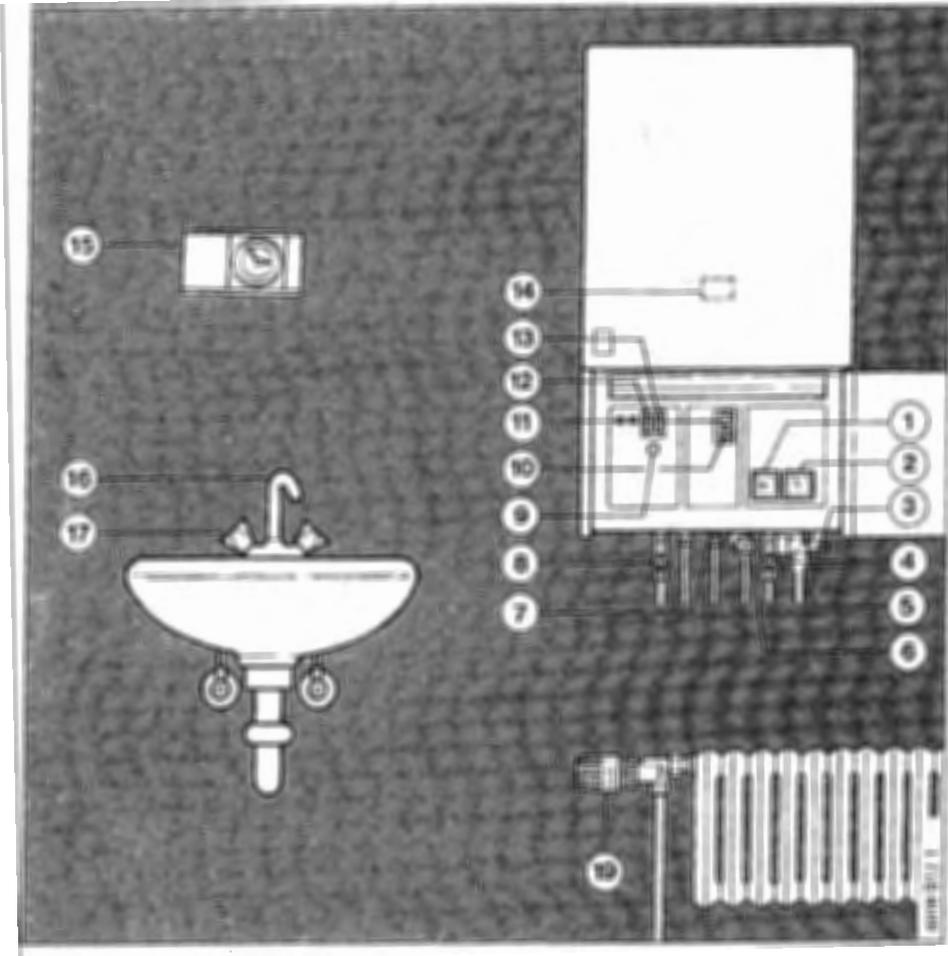
If the boiler shuts down for any reason, operation will be prevented for between 15 and 20 minutes. After 20 minutes it will be possible to use the appliance in accordance with the instructions for use.

IMPORTANT

In case of a repetitive boiler cut-off, disconnect the main switch and charge a qualified fitter with the appliance check.

If the appliance repeatedly shuts down **do not** use it and consult your qualified installer or service engineer.

OPERATING SUMMARY



- ① Pressure gauge
- ② Flow thermometer
- ③ Pressure relief valve
- ④ Heating return service cock
- ⑤ Piezo igniter
- ⑥ Cold water shut off valve
- ⑦ Gas service cock
- ⑧ Heating flow service cock
- ⑨ Flow thermostat
- ⑩ Push button to light the pilot
- ⑪ Push button to shut-off the pilot
- ⑫ Heating switch
- ⑬ Main switch
- ⑭ Viewing window
(behind the appliance upper door)
- ⑮ Room thermostat
- ⑯ Water outlet
- ⑰ Hot water tap
- ⑱ Thermostatic radiator valve (if fitted)

We do not accept any liability for damage arising as a result of the non-observance of these operating instructions.

83 22 17 GB / IR01



HEATING, CONTROLS, HOT WATER

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