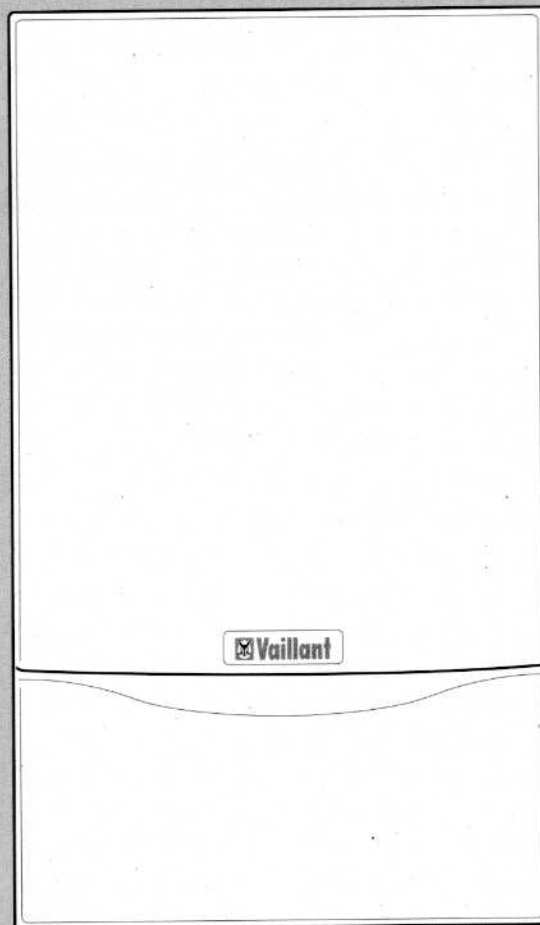


INSTRUCTIONS FOR USE

TURBOmax Plus 824 E, 828 E
THERMOcompact 615 E, 620 E, 624 E, 628 E



benchmark

The code of practice for the installation,
commissioning & servicing of central heating systems

 **Vaillant**



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For your information

Thank you for choosing a Vaillant boiler. The information given in this booklet will enable you to obtain the best performance from your boiler.

TURBOmax Plus provides both central heating and domestic hot water, with the domestic hot water supplied directly from the boiler. The boiler will operate automatically to provide domestic hot water whenever a hot water tap is opened, and automatically adjusts to meet the demand for both central heating and domestic hot water in the most economical way.

THERMOcompact provides central heating and domestic hot water where a separate indirect hot water cylinder is also incorporated to the system.

If, after reading these instructions, you have any questions on the operation of the boiler, please contact either your installer or Vaillant Technical Department.

The benchmark logbook should be completed by the installer and/or the commissioning engineer and handed to the user.

All CORGI registered installers carry a CORGI ID card, and have a registration number.

Both should be recorded in your Benchmark Log Book. You can check your installer by calling CORGI direct on 01256 372300.

Key to symbols



Important Note



This symbol is used to indicate important instructions.



This symbol is used to indicate a required step.

Liability



We can accept no liability whatsoever for damage or injury resulting from failure to observe these instructions.



OPERATION

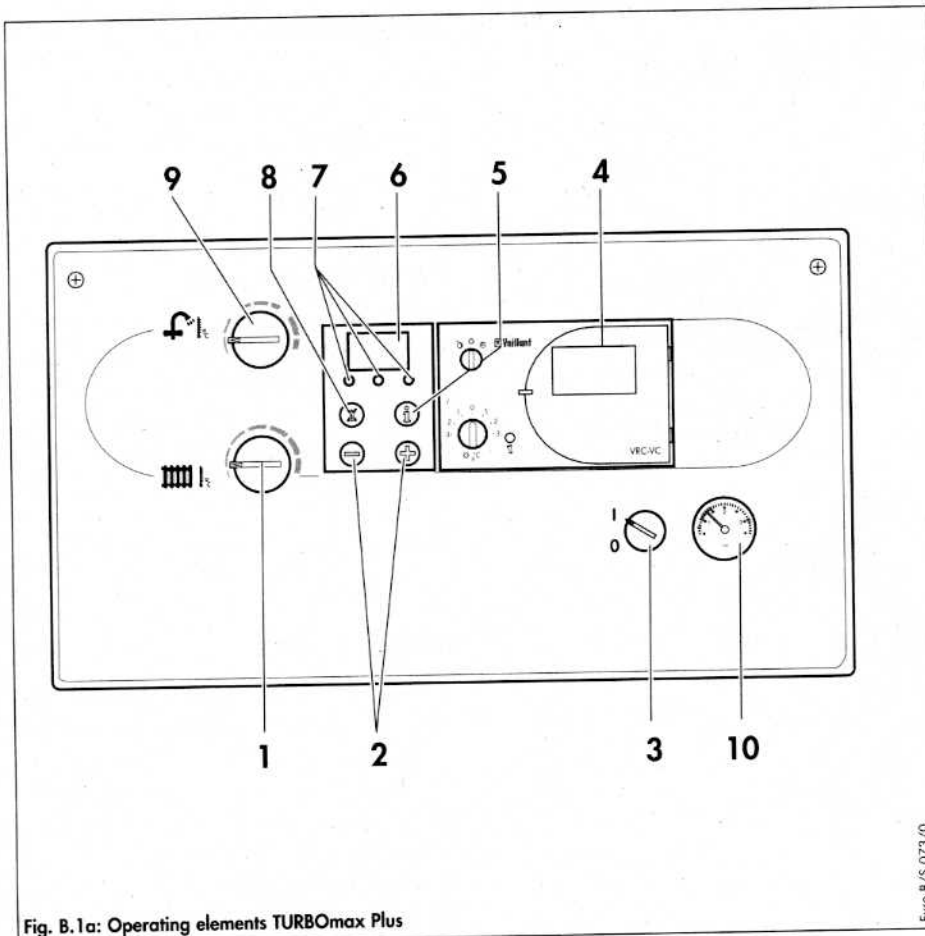


Fig. B.1a: Operating elements TURBOmax Plus

Euro B/S 073/0

Overview

TURBOmax Plus

Operating controls

For access to the controls press the upper middle of the lower front panel and drop it down.

The following can be seen:

- 1 Maximum radiator temperature control (page 13)
- 2 The „+“ and „-“ buttons for the display panel
- 3 Main ON/OFF control (pages 10 and 15)
- 4 Built in control/timer module (if fitted)
- 5 The „i“ information button
- 6 Boiler display
- 7 Indicator lights to display the current operating mode
- 8 „Reset“ button: (see page 14)
- 9 Maximum hot water temperature control and warmstart ON/OFF control (page 11)
- 10 Pressure gauge displaying the pressure in the heating system

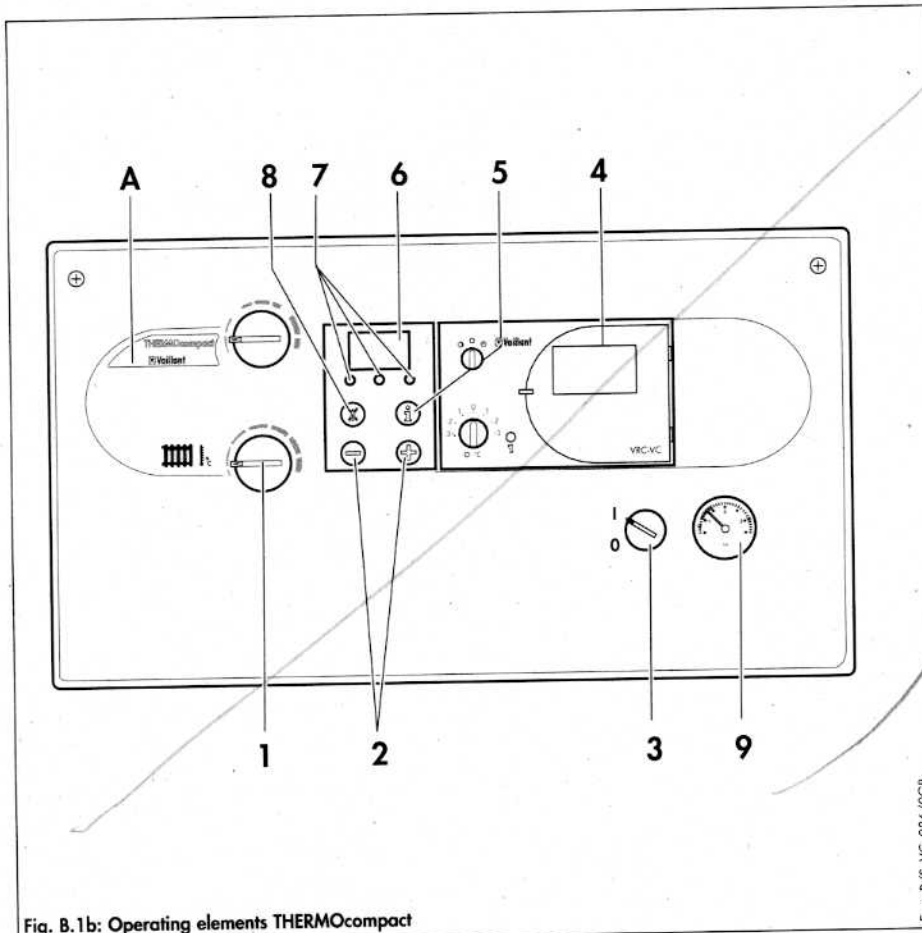


Fig. B.1b: Operating elements THERMOcompact

Euro B/S_VC_086/0GB

THERMOcompact

You can identify a THERMOcompact boiler by the sticker which is situated at the top left hand side of the control panel (see A, Fig. 1.b)

Operating controls

For access to the controls press the upper middle of the lower front panel and drop it down.

The following can be seen:

- 1 Maximum radiator temperature control (page 13)
- 2 The „+“ and „-“ buttons for the display panel
- 3 Main ON/OFF control (pages 10 and 16)
- 4 Built in control/timer module (if fitted)
- 5 The „i“ information button
- 6 Boiler display
- 7 Indicator lights to display the current operating mode
- 8 „Reset“ button: (see page 14)
- 9 Pressure gauge displaying the pressure in the heating system



Indicator lights/boiler display

TURBOmax Plus and THERMOcompact boilers have an advanced multifunction boiler display (1). When the main ON/OFF control is in the „ON“ position the display will normally show the temperature of water in the boiler circuit (45 °C in the example), which confirms that the boiler is functioning correctly.

- 1 In the unlikely event of a fault developing which prevents the boiler from operating, the display may show a fault code (page 14).
- 2 Red indicator
Illuminated = Boiler has locked out
- 3 Yellow indicator
Illuminated = Main burner ignited
- 4 **TURBOmax Plus**
Green warmstart indicator (3)
Illuminated = Warmstart switched ON
Not illuminated = Warmstart is switched OFF and there is no demand for hot water
Flashing = There is either a demand for hot water or warmstart
- 4 **THERMOcompact**
Green indicator (3) is illuminated but has no function.

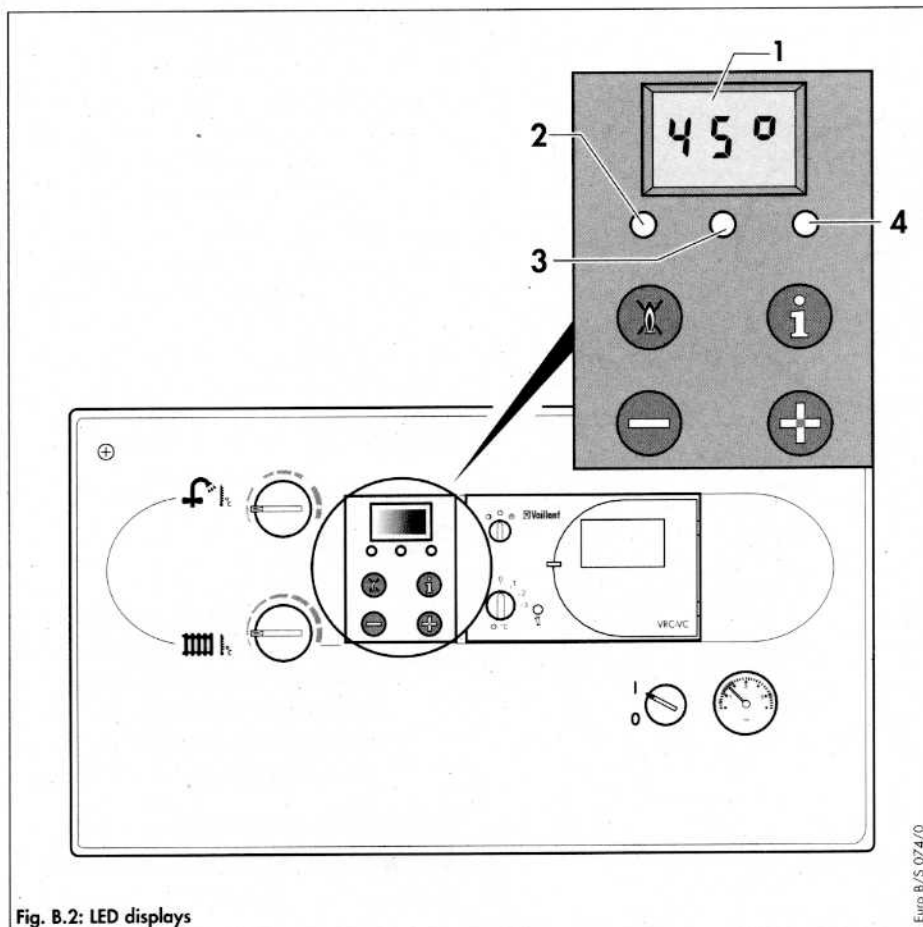


Fig. B.2: LED displays

Euro B/S 074/0

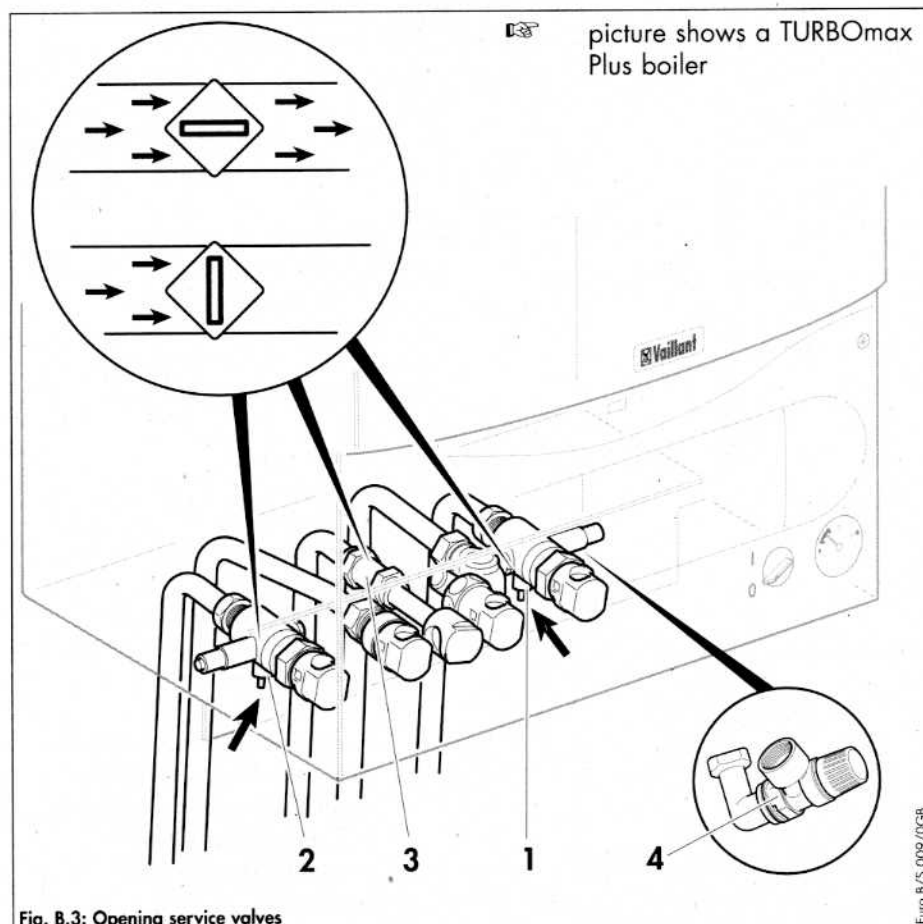


Fig. B.3: Opening service valves

Euro B/S 009/DGB

Initial checks before turning ON

Open the service valves

- Ensure the cold water service valve is open. This can be checked by opening a hot water tap and ensuring water flows.
- Ensure that the service valves in the heating flow and return (2 and 1) and the gas service valve (3) are open.
- ☞ The flow, return and gas service valves are open when the line marking has the same direction as the pipe.
- The pressure relief valve (4) is provided for safety reasons and must not be interfered with.

Note:

A bottom cover is fitted to the appliance. The service valves can be seen through the cover.



OPERATION

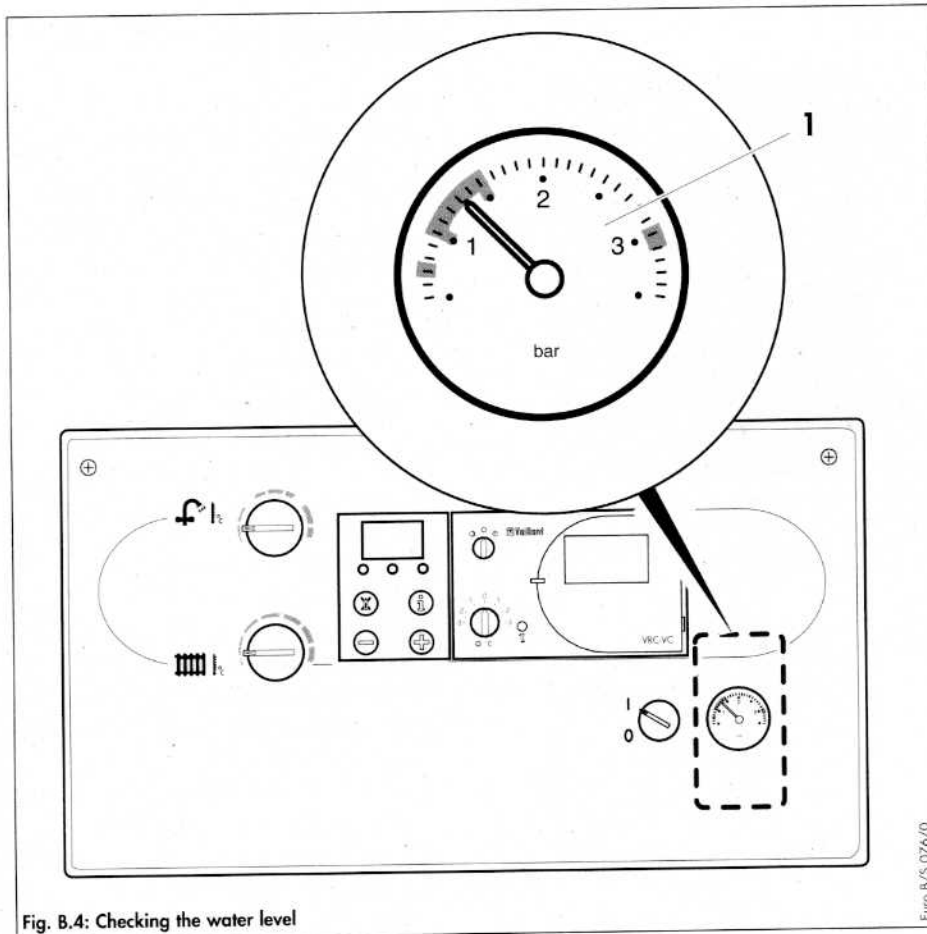


Fig. B.4: Checking the water level

Euro B/S 076/0

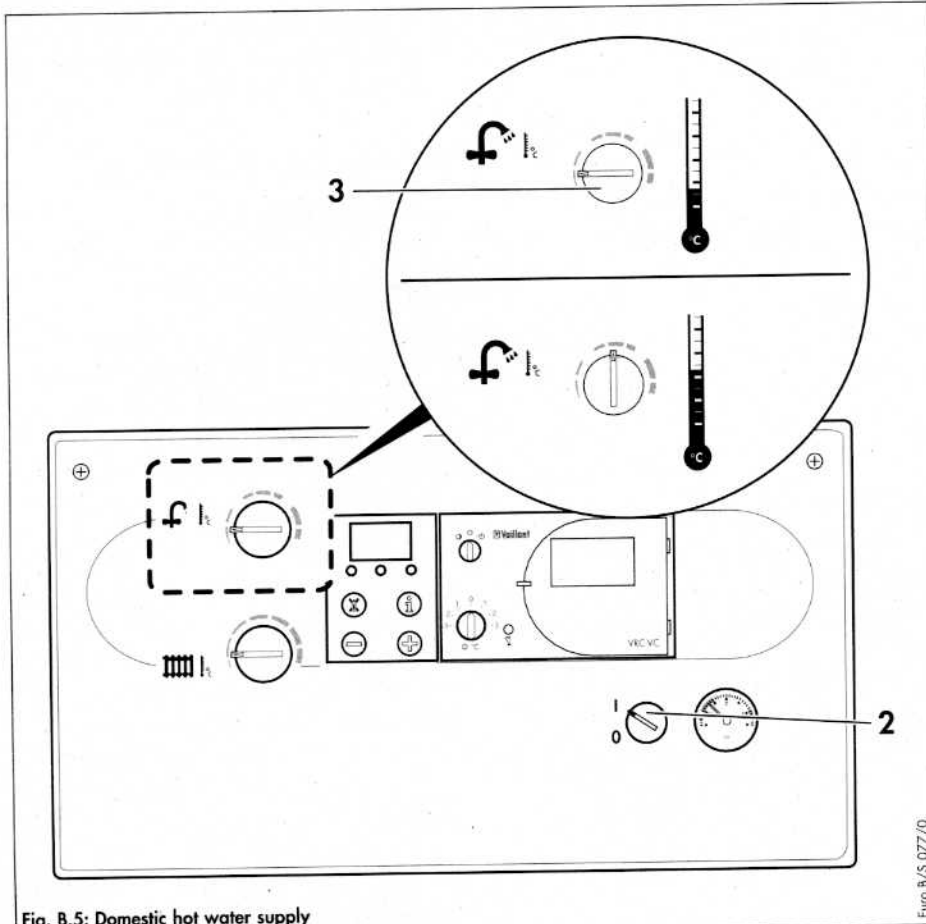


Fig. B.5: Domestic hot water supply

Euro B/S 077/0

Check the water contents

- Check the water contents of the system on the pressure gauge (1). The needle on the pressure gauge should be within the green band (between 1 and 1.5 bar). If the needle displays a value below 0.8 bar when the appliance is cold, follow the instructions left by your installer to refill the system. Alternatively, your installer should be called to refill the system.

Domestic hot water operation (TURBOmax Plus only)



The boiler should only be used when the heating system contains water. Use of the boiler without water may cause damage to the boiler or its components.

Setting the maximum domestic hot water temperature control

- Turn the main switch (2) to the „I” position.
- The display will show the boiler flow temperature which indicates electrical power to the boiler.
- The domestic hot water temperature can be adjusted using the hot water temperature control (3).
- Turn the control clockwise to increase the temperature and anti-clockwise to decrease the temperature.

As a guide for normal circumstances set the knob to the one o'clock position.

Note:

This control adjusts the maximum domestic hot water temperature. If adjusting the control upwards appears to have no effect on the temperature, then the boiler is already operating at full output for the selected flow rate.



If you live in a hard water area please do not set the control knob above the mid (12 o'clock) position to prevent excessiv scale formation (fig. B.5).

