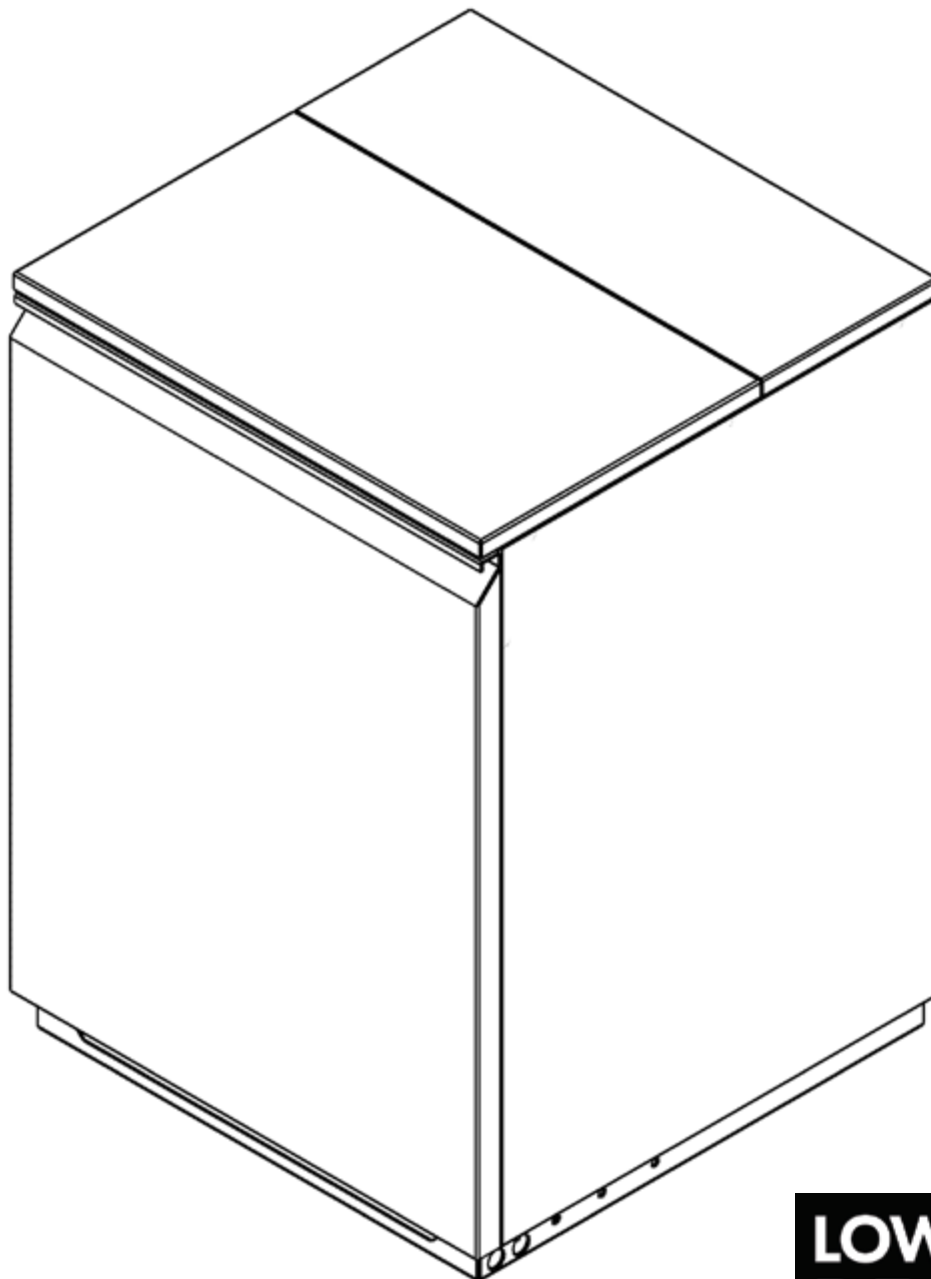


Grant Vortex

Combi

Condensing Oil Boiler Range

User Instructions



LOW NO_x
READY



IMPORTANT NOTE FOR INSTALLERS

These user instructions are intended to guide users on the operation of the Grant Vortex oil boiler.

A separate manual is available to guide installers on the installation, commissioning and servicing of the Grant Vortex oil boiler.

SPECIAL TEXT FORMATS

The following special text formats are used in these instructions for the purposes listed below:

! WARNING !

Warning of possible human injury as a consequence of not following the instructions in the warning.

! CAUTION !

Caution concerning likely damage to equipment or tools as a consequence of not following the instructions in the caution.

! NOTE !

Used for emphasis or information not directly concerned with the surrounding text but of importance to the reader.

PRODUCT CODES COVERED

These instructions cover the following product codes:

Product code	Product Description
VTXCOMBI21	Vortex Combi 21 oil boiler
VTXCOMBI26	Vortex Combi 26 oil boiler
VTXCOMBI36	Vortex Combi 36 oil boiler
VTXXSCOMBI26	Vortex Combi 26 compact oil boiler

SERVICING

The boiler should be serviced at least every twelve months and the details entered in the Service Log in this user handbook.

FUEL TYPE

All Grant Vortex boilers are suitable for use with Class C2 Kerosene.

The use of Class D Gas Oil on all Grant Vortex Low NOx and Blue Flame boilers DOES NOT comply with ErP requirements or EU regulations, and as a result Grant UK does not condone its use.

If your boiler uses Bio-Kerosene (B30K), refer to the installation and servicing instructions.

! NOTE !

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



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1 INTRODUCTION

1.1 ABOUT YOUR BOILER

The boiler is fully automatic once switched on, providing domestic hot water at mains pressure on demand and central heating when the hot water and heating system controls call for it.

Kitchen/Utility boilers have a 'mains on' neon, see Figure 2-1, which lights when the boiler is switched on.

! NOTE !

The 'mains on' neon light does not necessarily indicate the burner is firing.

Your boiler may be fitted with one of the following control options, located either on the boiler control panel or in a convenient position remote from the boiler:

- Option A - Programmable room thermostat only.
- Option B - Remote timer and room thermostat.
- Option C - Boiler-mounted 'plug-in' single channel 24 hour mechanical timer and remote room thermostat.
- Option D - Remote two-channel programmer and room thermostat.

Whatever type of control system is connected to your combi boiler, it will allow you to set the operating times of your central heating.

In the case of options A, B and C - domestic hot water will be available continuously, providing the boiler is switched on, irrespective of the central heating controls settings.

In the case of option D, you can set the operating times for both central heating and domestic hot water using the heating and hot water settings on the programmer.

1.2 BOILER CONTROLS ACCESS

To gain access to the boiler controls, pull the front panel forward at the top to disengage the fixing clips, then lift it up and off the boiler, to reveal the boiler components and controls, as shown in Figure 1-1.

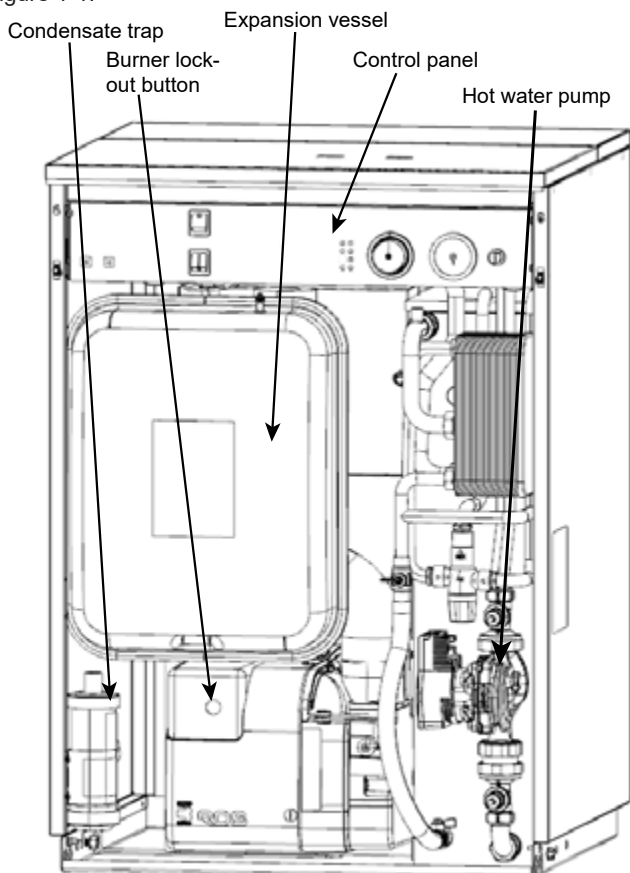


Figure 1-1: Boiler components

1.3 WHAT THE INSTALLER SHOULD LEAVE YOU WITH

- A completed OFTEC CD10 (installation completion report)
- A completed OFTEC CD11 (servicing and commissioning report)
- The boiler installation and servicing instructions
- This user handbook

The installer should have advised you how to operate the boiler and controls.

As all Grant combi boilers operate as part of a sealed system, the installer should have shown you how to check and top up the heating system should your system pressure drop. Also see Sections 3.1 and 3.2.

1.4 COMMISSIONING

Following installation, your boiler should be commissioned by a competent person, such as an OFTEC registered engineer, to validate the guarantee.

During the commissioning process, your boiler will be set to its optimum efficiency using specialist flue gas analysis equipment.

Your installer should arrange for this to be carried out.

If required, Grant UK can provide details of OFTEC registered commissioning engineers in your area.

1.5 ACTIVATING THE GUARANTEE

In order for your boiler's full* guarantee to be activated, your boiler must be registered with Grant UK within 30 days of its installation**.

To register your boiler, please either call Grant UK on: 01380 736920 or visit the Grant UK website: www.grantuk.com.

Your installer may have registered the boiler on your behalf and provided you with the relevant documentation.

*If registered within 30 days of installation, your boiler will come with a 2 year guarantee. Extended guarantees are also available upon request; please contact Grant UK for further details.

**If the boiler is not registered within 30 days of installation, your boiler will come with a 12 month guarantee.

Please refer to the boiler installation and servicing instructions for the full terms of the manufacturer's guarantee.

1.6 BOILER SERVICING

Your boiler must be serviced every 12 months from the date of installation to maintain the guarantee, for the entire duration of the guarantee (this includes any extended guarantee that may have been purchased).

The nozzle and braided oil hose should be replaced annually (unless a 'long life' oil hose is fitted, in which case refer to the manufacturer's instructions for details on service life). The air pressure charge of any expansion vessels fitted to the system must be checked annually.

Please make sure that your installer has recorded the service information in the Service Log at the back of these user instructions. Should you ever need to utilise the product guarantee, you will be asked to provide the service history of the boiler.

1.7 BOILER DATA PLATE

Your boiler is fitted with a data plate, which shows any engineers who come to service or repair your boiler some basic information they may need to know in order to carry out their required works.

The data plate also contains the boiler serial number, which is required by Grant UK when registering the boiler.

This data plate can be found inside the boiler casing by removing the front casing panel (see Section 1.2), and looking on the inside of either the left or right hand casing panel (depending on model).

! WARNING !

Interference with the boiler (or any sealed component) is strictly forbidden, other than where information is given in these user instructions.

Incorrect use of the boiler can result in danger to the user and will invalidate the guarantee.

2 USING YOUR BOILER

2.1 LIGHTING YOUR BOILER

The lighting procedure is:

1. Ensure that:
 - a) There is sufficient fuel, of the correct type, in the supply tank and that all fuel supply valves are open.
 - b) The water supply is on.
 - c) The electricity supply to the boiler is OFF.
 - d) The boiler On/Off switch is set to OFF.
 - e) The Heating switch is set to TIMED or CONSTANT.
 - f) The Hot Water switch is set to TIMED or CONSTANT.
 - g) The cold system pressure is in the recommended range (see Section 3.1).
 - h) The room thermostat (if fitted) is at the desired setting.
 - i) The boiler thermostat is set to the required setting.
 - j) The timer or programmer is correctly set.
2. Switch the electricity supply to the boiler ON.
3. Set the boiler On/Off switch to ON.
4. The boiler will now light automatically.
5. If the programmer or timer is set to a heating 'on' period and the room thermostat is 'calling' for heat, the boiler will continue to run to provide central heating, after the hot water store reaches temperature.

Once the store has reached temperature, if a hot water tap is opened the boiler will provide hot water.

2.2 IF YOUR BOILER FAILS TO LIGHT

Make the following checks:

1. Check that the boiler On/Off switch is set to ON and that the POWER indicator LED on the control panel is lit.
2. Check that the timer or programmer is working and is set to ON.
3. Check that all thermostats are set to the desired setting and are calling for heat.
4. Check that the DEMAND LED on the control panel is lit.
5. Check if the burner 'Lock-Out' reset button on the burner body (refer to Figure 1-1 for location) is lit.

If it is, press it to start the burner.
If the burner fails to light and goes to 'Lock-Out' again, check that you have sufficient fuel in the storage tank and that the fuel supply valve is open.
6. Check that the fire valve in the oil supply line has not tripped.
7. Check to see if the OVERHEAT LED on the control panel is flashing - indicating that the overheat thermostat has operated. (See Section 2.7).
8. Ensure that a fuse has not blown or that the electricity supply has not failed.

If the burner still fails to light after carrying out these checks then a fault exists or the fuel supply is low. If you have sufficient fuel, switch off the electricity supply to the boiler and contact your service engineer.

2.3 TURNING OFF YOUR BOILER

To turn off your boiler:

- **For short periods-**

Set the On/Off switch to OFF.
To restart, simply set the switch to On.
- **For long periods-**

Set the On/Off switch to OFF and switch off the electricity supply to the boiler. If required, the fuel supply valve may be closed and the water and electricity supplies turned off at the mains.
To restart, refer to Section 2.1 (Lighting your Boiler).

2.4 DOMESTIC HOT WATER SYSTEM

The boiler will supply domestic hot water whenever a hot tap is opened, provided the boiler On/Off switch is set to ON and the Hot Water switch is set to either CONSTANT or TIMED. If a two-channel programmer is fitted, the hot water setting on the programmer must be 'on' for the boiler to provide continuous hot water when the Hot Water switch is set to TIMED.

2.5 'NIGHT TIME' HOT WATER FUNCTION

This is a feature built in to your boiler allowing a limited amount of hot water to be drawn off during periods when either the hot water programmer channel is 'off' (for example, during the night) or the Hot Water switch is set to OFF - provided that the primary store in the boiler is hot.

When a hot tap is opened in this period, the flow switch activates the hot water store pump and the incoming mains cold water is heated using whatever heat is present in the primary store.

The burner will not fire and so the heat in the store will gradually be used up and the domestic hot water temperature will reduce with time.

If a two-channel programmer is fitted the hot water setting on the programmer must be 'on' for the boiler to provide continuous hot water when the Hot Water switch is set to TIMED.

! NOTE !

The flow of water from the taps (hot or cold) depends on the mains water pressure, and in some homes it may not be possible to use more than one tap at a time.

2.6 ABOUT YOUR FUEL

Grant Vortex Combi boilers only operate on Class C2 Kerosene to BS 2869:1998.

You should always quote this type of fuel when ordering from your supplier.

Do not wait until the fuel runs out before you order some more as sludge in the bottom of the tank may be drawn into the fuel lines. If it is possible, switch off the boiler when the new supply is delivered and leave the fuel to settle for an hour before restarting the boiler.

2.7 BOILER CONTROLS

BOILER THERMOSTAT

This dial, located on the boiler control panel, allows the temperature of the water leaving the boiler to heat the radiators (and/or other heat emitters if fitted) to be adjusted. This dial does not control the temperature of the hot water flowing to the taps.

Refer to Figure 1-1 for the location of the control panel within the boiler casing and Figure 2-1 for the details of the control panel.

OVERHEAT THERMOSTAT

Your boiler is fitted with a safety overheat thermostat which will automatically switch off the boiler in the case of a control malfunction causing overheating.

If your boiler goes off and you try to light it but nothing happens and the 'Lock-Out' reset button on the burner is not lit, the overheat thermostat has probably operated. The OVERHEAT indicator LED on the control panel will also be flashing if the overheat thermostat has tripped (see Figure 2-1).

The boiler will not light until the overheat thermostat is reset.

To reset the overheat thermostat, unscrew the small plastic cap marked "reset" (see Figure 2-1), press the button and replace the cap.

If this condition continually repeats, contact your service engineer.

HEATING SWITCH

When set to TIMED, the boiler will only provide central heating when either the programmer or timer is in a 'heating on' period and the room thermostat is 'calling' for heat.

When set to OFF, the boiler will not provide central heating at all.

When set to CONSTANT, the boiler provides central heating continuously when the room thermostat is 'calling' for heat, overriding all of the timer or programmer heating settings.

HOT WATER SWITCH

This switch allows the hot water operation of the boiler to be manually switched off if hot water is not required. With the switch set to OFF, the burner will not fire to maintain the water temperature in the store and the hot water (store) pump will not operate.

If a two channel programmer is connected to the boiler (see Option D in Section 1.1), when this switch is set to TIMED the boiler will provide hot water only during the 'on' periods set on the programmer.

When the switch is set to CONSTANT the boiler provides hot water continuously on demand, overriding any programmer settings.

Refer to Section 2.5 for information on the 'night time' hot water function present on Grant Vortex combi boilers.

BOILER INDICATOR LIGHTS

These 7 red lights, located on the boiler control panel, indicate the operating situation of the boiler. Refer to Figure 2-1 for the position of these lights on the boiler control panel.

2.8 HEATING SYSTEM CONTROLS

TIMER (IF FITTED)

If a mechanical timer is fitted, it will only control the times that the boiler heats the central heating system (the heating switch on the control panel must be set to TIMED). Hot water will be available on demand (if the hot water switch on the boiler control panel is set to CONSTANT).

A 'plug-in' mechanical timer is available to purchase from Grant UK (part code: MTKIT), which fits into a suitably sized 'knockout' panel in the boiler control panel (see Figure 2-1).

PROGRAMMER (IF FITTED)

If a two-channel programmer is fitted, it will control the times that the boiler heats the central heating system and the times that the boiler will provide instant hot water. Both the heating and hot water switches (on the control panel) must be set to TIMED.

Refer to the manufacturer's instructions supplied with your programmer for further details.

ROOM THERMOSTAT

This thermostat allows you to control the room temperature at which the boiler will fire to provide central heating to your property.

The room thermostat is usually located in a downstairs area such as a hallway or living area.

If your heating system is 'zoned' you will have more than one room thermostat, with each thermostat controlling the temperature of a separate heating zone.

! NOTE !

For your boiler to operate to provide you with heating, the programmer (or timer) must be in an 'ON' period for heating AND the room thermostat must be 'calling' for heat.

The heating switch on the control panel must also be set to TIMED (if a timer or programmer is fitted) or ON.

THERMOSTATIC RADIATOR VALVES

Your heating system may also include Thermostatic Radiator Valves (or TRVs). If you have them, they will be fitted on some or all of your heating system radiators.

A TRV is a self-regulating valve, i.e. not connected to the other heating system controls, such as a programmer or room thermostat, and is designed to regulate the temperature in the room in which it is situated.

A TRV senses the air temperature around it and controls the water flow to the radiator on which it is fitted to regulate its heat output to the room. The head of the TRV can be rotated to set it to give the required room temperature. Once correctly set, it should ideally be left in that position and not used as an on/off control for the radiator.

As the correct operation of a TRV is based on it sensing the air temperature of the room it is fitted in, take care not to cover the TRV head (with curtains, furniture etc).

Refer to the manufacturer's instructions supplied with any TRVs fitted to your heating system for further details.

2.9 ELECTRICITY SUPPLY

The boiler requires a 230/240 V AC 50 Hz supply. It must be protected by a 5 Amp fuse.

! WARNING !

The electrical connections to the boiler must be earthed.

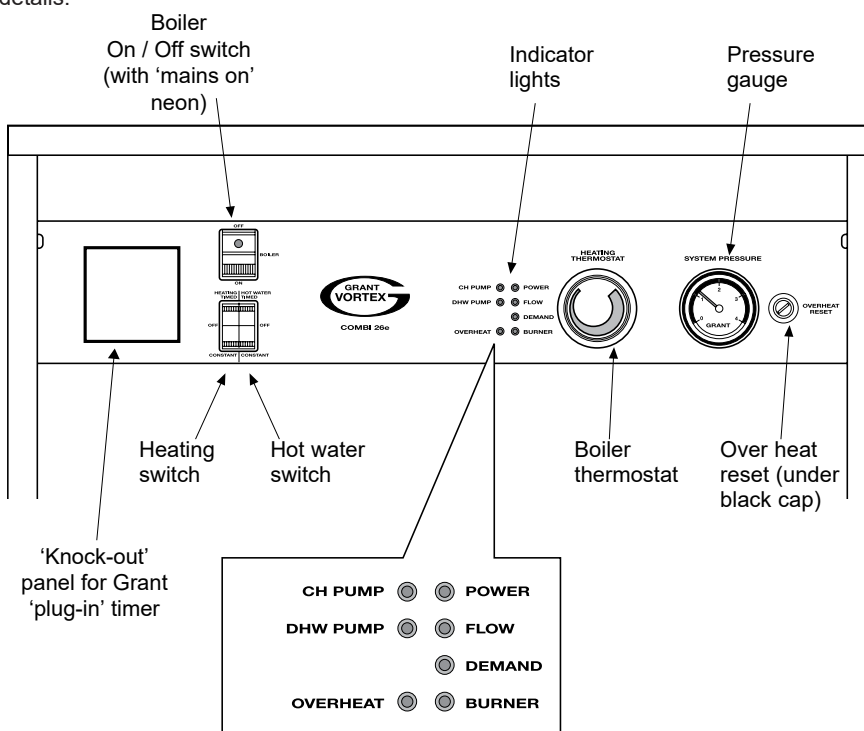
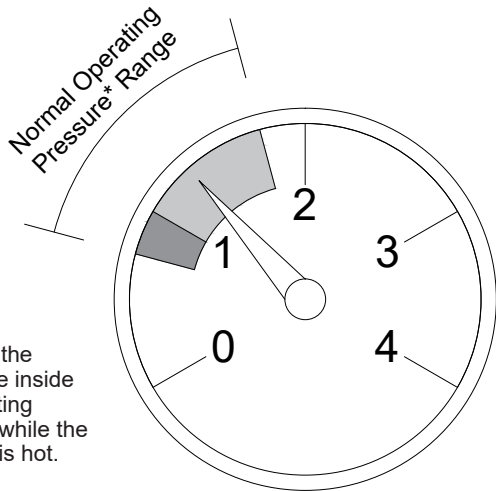


Figure 2-1: Vortex combi boiler control panel

3 CARING FOR YOUR BOILER

3.1 CHECKING SEALED SYSTEM PRESSURE

All Grant Vortex combi boilers operate as part of a sealed system. Your installer will have pressurised the system and should have told you (or set it on the pressure gauge) the system pressure when cold. This pressure is normally between 0.5 and 1.0 bar, which will increase slightly when the system is hot.



*This is the pressure inside the heating system while the system is hot.

Figure 3-1: Pressure gauge during normal boiler operation

You should frequently check that the system pressure is correct. If the pressure (when the heating system is cold) is below the set pressure mentioned above, you can re-pressurise the system by following the instructions given in Section 3.2.

If the system requires re-pressurising frequently, ask your installer or service engineer to check the heating system for leaks and to check the expansion vessel air charge.

AIR VENTS

The boiler and/or system will be fitted with an air vent to remove air from the system.

Any air trapped in the radiators should be removed by venting the radiators using the vent screw at the top of each radiator. Only vent a radiator if the top is cool and the bottom is hot. Excessive venting will reduce the system pressure, so only vent when necessary and check the system pressure as mentioned above.

Re-pressurise the system if necessary.

PRESSURE RELIEF (SAFETY) VALVE

The boiler is fitted with a safety valve to release excess pressure from the system. If water or steam is emitted from the safety valve discharge pipe, switch off the boiler and contact your installer or service engineer immediately.

3.2 HOW TO FILL OR TOP UP YOUR SEALED SYSTEM

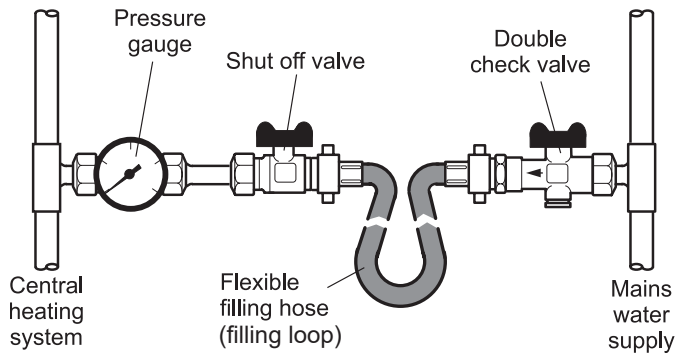


Figure 3-2: Sealed system filling loop arrangement

To fill or top up your heating system, proceed as follows:

1. Check the boiler and circulating pumps are switched off and any air vents on the system are open.
2. Connect the filling loop* between the two filling valves.
3. Open the filling valve on the mains water end of the filling loop (the valve is open when the operating lever is in line with the valve).
4. Open the filling valve on the heating end of the filling loop to allow water to flow into the heating system (the valve is open when the operating lever is in line with the valve).
5. When the pressure gauge shows the required cold system pressure (refer to Section 3.1) close the filling valve on the heating system.
6. Vent each radiator to remove any air that may be trapped in them. Start with the lowest radiator in the system, i.e downstairs.
7. Locate the circulating pump(s) and vent the pump(s) by following the manufacturer's instructions.
 - Refer to Appendix A1 or A2 (as appropriate) at the back of the boiler's installation and servicing instructions for the pump venting procedure.
8. Now, check the system pressure on the system pressure gauge. If necessary, re-open the filling valve on the system until the gauge shows the required pressure. Take care not to over-fill!
9. Finally, close both filling valves and disconnect the filling loop at one end only. Take care, as the filling loop may contain water!

*Grant Vortex combi boilers come with the filling loop installed inside the boiler casing, but if you cannot locate the filling loop, please contact your installer.

! NOTE !

If the system has been drained down or requires frequent topping up, then the level of inhibitor and/or anti-freeze will need to be checked by your installer.

! WARNING !

Only add water to the system when the system is cold and the boiler is switched off.
Do not overfill

3.3 EXPANSION VESSEL

The expansion vessel should be checked annually, as part of your annual service, to ensure that there is a 1.0 bar air charge in the vessel. Failure to do this will invalidate the boiler guarantee. Refer to Section 1.6 for further details regarding servicing.

! NOTE !

The pressure gauge on the system does not show the air charge pressure in the expansion vessel.

! NOTE !

In order to properly care for your Grant boiler, an annual service by a competent person should always be undertaken.

3.4 VENTILATION

Unless your boiler is installed with a balanced flue system*, you will require ventilation openings in your property to provide your boiler with a fresh supply of air in order for it to fire.

Any ventilation openings in the property provided by the installer must not be obstructed.

You should periodically check that they are clear.

Do not attempt to 'box in' the boiler or build a compartment around it before contacting your installer.

Do not place any combustible material around or on the boiler or flue pipe.

*Balanced flue systems have an air intake system incorporated into their design, and provide the boiler with fresh air. This removes the need to have ventilation openings installed in your property for this purpose.

3.5 FLUE TERMINAL AND CONDENSATE DISPOSAL FLUE TERMINAL

If your boiler flue system has a terminal on the outside wall, make sure that the terminal is not damaged or obstructed in any way.

A wire mesh guard is required to cover the terminal if the terminal is less than 2 metres above ground level. If you think one is required, contact your installer.

You should periodically check for and remove any obstructions, e.g. cut back any bushes that may have grown over the terminal. Do not stack anything against or in front of the terminal.

In severe weather conditions, check that the terminal does not become blocked by snow or ice.

'PLUMING' FROM THE FLUE TERMINAL

Whilst operating, it is quite normal for the boiler to produce a white plume of condensation vapour from the flue terminal.

This is due to the high efficiency of the boiler and may be particularly evident with low outdoor temperatures.

CONDENSATE DISPOSAL

During the operation of the boiler, condensate is produced from the flue gases and this is drained to a suitable disposal point through the plastic waste pipe on the left hand side of the boiler.

The condensate drain must not be modified or blocked.

Blockage of the condensate drain, caused by debris or freezing can cause automatic shutdown of the boiler. If you suspect freezing and the pipe run is accessible, you can try to free the obstruction by pouring hot water over the exposed pipe and clearing any blockage from the end of the pipe. If this fails to remedy the problem, you should contact your service engineer.

3.6 FROST PROTECTION

All Grant Vortex combi boilers come with a pre-set frost protection function, designed to protect the boiler and heating system during adverse weather conditions. If you are likely to be away for a short time, the boiler should be left on so that the frost protection can function should it need to.

If the boiler is not going to be used for longer periods of time, the boiler and system should be drained.

Contact your service engineer for draining and filling the system.

! NOTE !

We recommend that both antifreeze and corrosion inhibitor be used in the primary water system.

3.7 FAILURE OF ELECTRICITY SUPPLY

If the electricity supply fails, the boiler will not operate. It should relight automatically when the supply is restored.

If a programmer is fitted, it will retain the time settings for up to 24 hours and will not have to be reset to the correct time of day when the supply is restored.

The programmer display will remain for up to 1 hour in the event of an electricity supply failure, and will re-appear when the supply is restored.

3.8 CLEANING YOUR BOILER

Lightly wipe over the case with a damp cloth and a little detergent and dry completely.

Do not use abrasive pads or cleaners.

Take care not to touch any hot surfaces.

4 AFTER SALES SUPPORT

If your boiler breaks down during the guarantee period, in the first instance you should contact your installer to identify the cause of the problem and if necessary your installer will contact us.

If you are unable to contact your installer please telephone the Grant UK Service Department for assistance. Authorisation to carry out guarantee repairs must be obtained from Grant UK before any work is carried out.

Costs incurred by unauthorised work will not be covered by Grant UK.

To contact the Grant UK customer support team, please call: 01380 736920.

If you need to contact Grant UK, please have the following information available:

- The address at which the installed boiler is located and the name of the householder.
- Details of the fault and any checks you may have carried out.
- Details of the installer and any competent persons who may have carried out work on the install in the past (if possible).

5 SERVICE LOG

Service 1	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
	Signature

Service 5	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
	Signature

Service 2	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
	Signature

Service 6	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
	Signature

Service 3	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
	Signature

Service 7	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
	Signature

Service 4	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
	Signature

Service 8	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
	Signature

Service 9	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
Signature	

Service 13	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
Signature	

Service 10	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
Signature	

Service 14	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
Signature	

Service 11	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
Signature	

Service 15	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
Signature	

Service 12	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
Signature	

Service 16	Date
	Engineer
	Company name
	Telephone number
	OFTEC Technician number
	Comments
Signature	

NOTES



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