Operating instructions

for the system user

Heating system
with control unit for constant temperature or weather-compensated mode

VITODENS 111-W

5618 673 GB 4/2012

Please keep safe.

For your safety

Please follow these safety instructions closely to prevent accidents and material losses.

Safety instructions explained

Danger
This symbol warns against the risk of injury.

Please note
This symbol warns against the risk of material losses and environmental pollution.

Note
Details identified by the word "Note" contain additional information.

Target group

These operating instructions are for the heating system user.
This unit is **not** designed to be used by persons (including children) with limited bodily, sensory or mental capacities, or lacking experience and/or lacking knowledge, unless they are supervised by a person responsible for their safety, or have received instructions from such a person as to how to use the unit.

Please note
Children should be supervised. Ensure that children do not play with the unit.

Danger
Incorrectly executed work on the heating system can lead to life-threatening accidents.
- Work on gas appliances must only be carried out by a registered gas fitter.
- Work on electrical equipment must only be carried out by a qualified electrician.

If you smell gas

Danger
Escaping gas can lead to explosions which may result in serious injury.
- Do not smoke. Prevent naked flames and sparks. Never switch lights or electrical appliances ON or OFF.
- Close the gas shut-off valve.
- Open windows and doors.
- Remove all people from the danger zone.
- Notify your gas or electricity supplier and your heating contractor from outside the building.
- Shut off the electricity supply to the building from a safe place (outside the building).

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For your safety (cont.)

If you smell flue gas

Danger
Flue gas can lead to life-threatening poisoning.
- Shut down the heating system.
- Ventilate the boiler room.
- Close all doors in the living space.

In case of fire

Danger
Fire creates the risk of burning and explosions.
- Shut down the heating system.
- Close the shut-off valves of the fuel lines.
- Use a tested fire extinguisher, class ABC.

Boiler room requirements

Please note
Incorrect ambient conditions can lead to damage to the heating system and put the safe operation at risk.
- Ensure ambient temperatures above 0 ºC and below 35 ºC.
- Prevent air contamination by halogenated hydrocarbons (e.g. as contained in paints, solvents or cleaning fluids) and excessive dust (e.g. through grinding/polishing work).
- Avoid continuously high humidity levels (e.g. through frequent drying of washing).
- Never close existing ventilation apertures.

Ancillary components, spare and wearing parts

Please note
Components that are not tested with the heating system may lead to damage to the heating system, or may affect their various functions.
Installation or replacement work must only be carried out by qualified personnel.

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Commissioning

The commissioning and matching up of the control unit to local conditions and the building characteristics must be carried out by your heating contractor.

(GB) Gas council no.

Rated heating output range kW	Gas council no.
6.5 - 26	47-819-24
8.8 - 35	47-819-25

Terminology

To provide you with a better understanding of the functions of your Viessmann control unit some terminology is explained.
The terms are marked as follows.

Further information can be found in chapter "Terminology" in the Appendix.

Your system is preset at the factory

The control unit is preset at the factory for standard operation.

Your heating system is therefore ready for operation. You may change the factory setting in accordance with individual requirements.

Energy saving tips

Utilise the setting options for the control unit and remote control (if available).

Central heating

- **Room temperature:**
  Never overheat your rooms. Every degree of room temperature reduction saves up to 6 % of your heating bills. Set your room temperature no higher than 20 ºC.
- **Operating modes:**

Energy saving tips (cont.)

If you do not require central heating, select one of the following operating modes:

– If you do not wish to heat rooms in summer but require domestic hot water, set rotary selector "🌡🚿" (see page 11) and turn rotary selector "🌡🏢" to **"0"**.
– If you require neither central heating nor DHW for a prolonged period, set rotary selectors "🌡🏢" and "🌡🚿"to "0" (see pages 11 and 11).

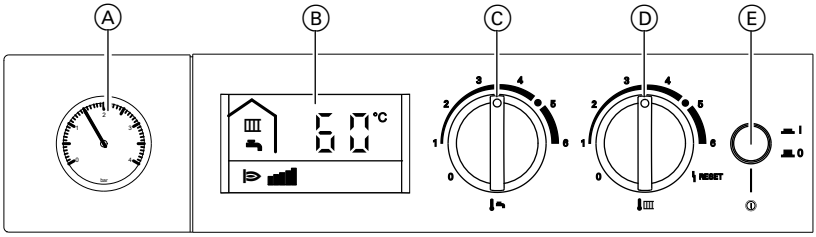
- **Ventilation:**
  To ventilate, open the windows fully for a brief time and meanwhile close the thermostatic valves (if there is no domestic ventilation system installed).
- **Roller shutters:**
  Close roller shutters (where installed) at dusk.
- **Thermostatic valves:**
  Ensure that thermostatic valves are properly set.
- **Radiators:**
  Never cover radiators or thermostatic valves.

DHW heating

- **DHW temperature:**
  Never set the DHW cylinder temperature excessively high (see page 11).
- **DHW consumption:**
  Consider showering instead of running a bath. A shower generally uses less energy than a full bath.

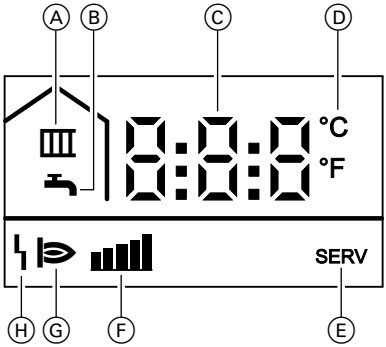
Summary of controls and indicators

Control and display elements



Ⓐ Pressure gauge
Ⓑ Display
Ⓒ Rotary selector "DHW temperature "
Ⓓ Rotary selector "heating water temperature" and "reset"
Ⓔ ON/OFF switch

Indicators on display



Ⓐ Heating mode
Ⓑ DHW heating
Ⓒ Display value or fault code
Ⓓ Temperature in °C
Ⓔ Service setting active (only for contractors)
Ⓕ Current burner output
Ⓖ Burner in operation
Ⓗ Fault

Operating mode of the heating system

Operation without room temperature control unit

Further information can be found in chapter "Terminology" in the Appendix.

The required heating water temperature can be set with the rotary selector "🌡" (see page 11).

Operation with room temperature control unit

Further information can be found in chapter "Terminology" in the Appendix.

Please make any adjustments to the connected room temperature control unit using the relevant operating instructions.

Note
The heating water temperature must be set sufficiently high using the rotary selector "🌡" for the desired room temperature to be reached.

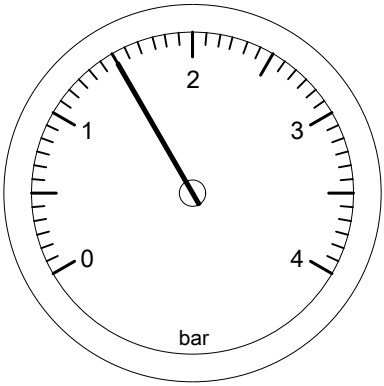
Weather-compensated mode

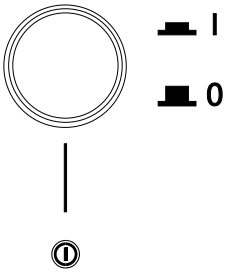
Further information can be found in chapter "Terminology" in the Appendix.

In weather-compensated mode, the boiler water temperature is regulated subject to the outside temperature. Rotary selector "🌡" enables you to increase or reduce the room temperature.

Starting the heating system

We recommend you contact your local heating contractor if you are planning to start up a heating system that has not been used for a long period.





1. Check the pressure of your heating system on the pressure gauge.
   Minimum system pressure 0.8 bar.
   If the system pressure is too low, please notify your heating contractor.

2. **With conventional flue operation** (combustion air is taken from the boiler room):
   There must be fixed permanent ventilation into the boiler room.

3. Open the gas shut-off valve.

4. Switch on the ON/OFF switch.
   Your heating system and room temperature control unit (if connected) are now ready for operation.

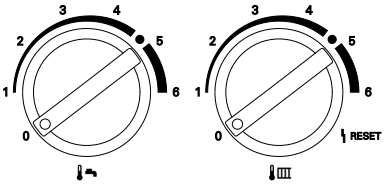
Shutting down the heating system

Switching the Vitodens off with frost protection

Further information can be found in chapter "Terminology" in the Appendix.

If you do not wish to use your boiler for several days you can switch the unit off.

Shutting down the heating system (cont.)



Turn both rotary selectors to "0".
Frost protection is now active for the boiler.

Note
Frost protection for the entire heating system - see operating instructions for the room temperature control unit.

Shutting down the heating system

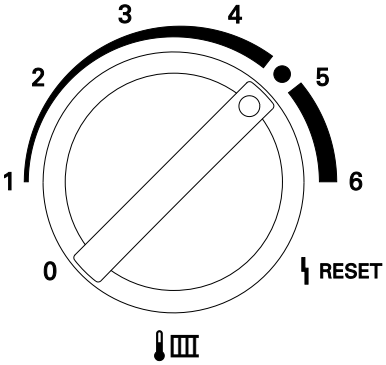
Shut down your heating system completely if it will not be needed for a long period of time (several months).
We recommend you contact your local heating contractor if you are planning to shut down your heating system for long periods. Your heating contractor can then take any necessary action, subject to requirements, e.g. system frost protection or preserving the heating surfaces.

1. Close the gas shut-off valve and safeguard against unauthorised reopening.

2. Switch off the ON/OFF switch.
   The power to the system is now switched off.
   Note that the system is no longer frost-protected.

Heating

Further information can be found in chapter "Terminology" in the Appendix.



Switching on:
Move rotary selector "🌡" to the required heating water temperature.

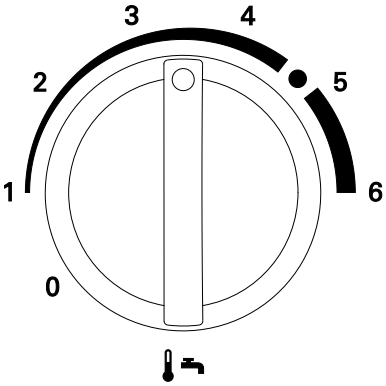
Note
If a room temperature control unit is connected, use this unit to set the desired room temperature (see page 8).

If central heating is active, the display shows "".

Switching off:
Turn rotary selector "🌡" to "0".

Domestic hot water

Further information can be found in chapter "Terminology" in the Appendix.



Select the DHW temperature in accordance with your personal requirements (e.g. for showering).

Switching on:
Move rotary selector "🌡" to the required DHW temperature.

If DHW heating is active, the display shows "".

Switching off:
Turn rotary selector "🌡" to "0".

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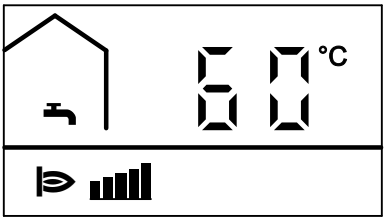
Heating water temperature

Further information can be found in chapter "Terminology" in the Appendix.



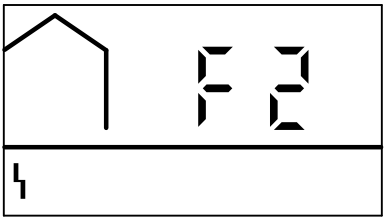
The boiler water temperature appears on the display at all times during operation. The heating water temperature is roughly equal to the boiler water temperature.

System characteristics

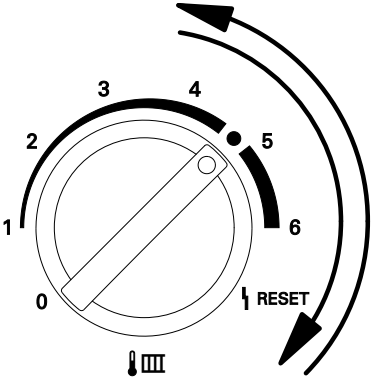
What to do if...	Cause	Remedy
... the heating system will not start	No mains voltage	Switch on the ON/OFF switch
	Rotary selector "🌡" is on "0"	Setting the desired heating water temperature (see page 11)
	Fuse/MCB in the power distribution board (domestic mains fuse) or in control unit has blown/responded	Notify your local heating contractor
... the burner is not started or starts intermittently	No gas available	Open the gas shut-off valve and if necessary check with your gas supply utility
	Control unit fault	Check the fault code on the display. Notify your local heating contractor and state the fault code.
... the burner fails to start; fault message "ϟ" is displayed	False start	Reset burner fault (see page 14) – if this attempt to start also fails, notify your heating contractor
	Water shortage	Notify your local heating contractor.
… the burner shuts down even if the rooms have not reached their required temperature	Fault in the ventilation air supply or flue system	Notify your local heating contractor
	Heating water temperature or required room temperature is set too low	Raise the heating water temperature with rotary selector "🌡" (see page 11) or raise required room temperature (see room temperature control unit operating instructions)
	Air in the heating system	Bleed radiators
... the rooms have not reached the required temperature, even though the burner is operational	DHW priority	Wait until the DHW cylinder has been heated up
	Circulation pump faulty	Notify your local heating contractor
… DHW temperature is too low	DHW temperature is set too low or rotary selector "🌡" is on "0"	Set the desired DHW temperature

Fault indicator on display

Any fault in the heating system will be shown on the display.
You can check the fault code on the display and then notify your heating contractor accordingly. This allows the heating contractor to better prepare for the service call and may save additional travelling costs.



Reset burner fault (Reset)



1. Turn rotary selector "🌡" to "↯ RESET" for less than 2 s, then back into the control range.
2. If the attempt to start fails, contact your heating contractor with the fault code.

Cleaning

All appliances may be cleaned with a commercially available domestic cleaning agent (non-scouring).

Inspection and maintenance

The inspection and maintenance of a heating system is prescribed by the Energy Savings Ordinance [EnEV - Germany] and the DIN 4755, DIN 1988-8 and EN 806 standards.

Regular maintenance ensures trouble-free, energy-efficient and environmentally responsible heating. For this, it is recommended that you take out an inspection and maintenance contract with your local contractor.

Boiler

Increasing boiler contamination raises the flue gas temperature and thereby increases energy losses. All boilers should therefore be cleaned annually.

Logbook

Please ensure that you have a Logbook supplied with your appliance. This Logbook should be completed by your installer to verify that the correct installation and commissioning procedure was followed.
Failure to complete the Logbook may result in difficulties should a problem arise with your appliance during the guarantee period. This Logbook forms part of the industry's Benchmark code of practice for the installation, commissioning and servicing of central heating systems.

All Gas Safe Registered Installers carry a ID card and have a registration number. Both should be recorded in your Logbook. You can check your installer is Gas Safe registered by calling GasSafe register on +44 (0)800 408 5500 or visit the website www.gassaferegister.co.uk

Inspection and maintenance (cont.)

Drinking water filter (if installed)

Further information can be found in chapter "Terminology" in the Appendix.

For hygiene reasons
- replace filter element on non-backwashing filters every six months (visual inspection every two months)
- on backwashing filters, backwash every two months

Terminology

Constant temperature mode

In constant temperature mode, the heating water is constantly (continuously) heated to the selected boiler water temperature.

Operating modes

You can select the following operating modes:

- When and are selected:
  The rooms are heated. DHW is heated (winter mode).
- When is selected:
  DHW is heated but there is no central heating (summer mode).
- When is selected:
  The rooms are heated but there is no DHW heating.
- When and are set to "0":
  Frost protection for the boiler and DHW cylinder is active, no central heating, no DHW heating (standby mode).

Heating water temperature

The temperature of the heating water that flows to the radiators (roughly equal to boiler water temperature).

Boiler water temperature

The heating water in the boiler (boiler water) is heated to the temperature selected at the control unit. This temperature is described as boiler water temperature.

Open flue operation

The combustion air is drawn from the room where the boiler is installed.

Balanced flue operation

The combustion air is drawn from outside the building.

Room temperature-dependent operation

A room temperature control unit captures the room temperature and compares this with the required room temperature you selected. If the room temperature is lower than the required value, the boiler is switched on; if the room temperature is higher than the required value, the boiler is switched off.
Please make any adjustments to the connected room temperature control unit using the relevant operating instructions.

Note
The heating water temperature must be set sufficiently high using the rotary selector "" for the desired room temperature to be reached.

Safety valve

A safety device that must be installed by your heating contractor in the cold water pipe. The safety valve opens automatically to prevent excess pressure in the DHW cylinder.

Terminology (cont.)

Drinking water filter

A device that removes solids from the water. The drinking water filter is installed in the cold water pipe upstream of the DHW cylinder or the instantaneous water heater.

Flow temperature

The temperature of the heating water that flows to the radiators (in the flow line). Accordingly, the temperature of the heating water that flows from the radiators to the boiler (in the return line) is described as the return temperature.

Weather-compensated mode

In weather-compensated mode, the flow temperature is controlled according to the outside temperature. This means that no unnecessary heat is generated in order to heat the rooms to the required room temperature you selected.
The outside temperature is captured and transmitted to the control unit by a sensor fitted outside the building.

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Keyword index

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Your contact

Contact your local contractor if you have any questions regarding the maintenance and repair of your system. You may, for example, find local contractors on the internet under www.viessmann.com.

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