# Operating instructions



for the system user

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



### **VITODENS 100-W**



5592 606 GB 11/2011 Please keep safe.

### Safety instructions

### 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).

### 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 °C and below 35 °C.
- 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. As the user of new combustion equipment, you may be obliged to notify your local flue gas inspector of the installation [check local regulations]. Local flue gas inspectors will also inform you [where appropriate] about work they may be required to perform on your combustion equipment (e.g. regular checks, cleaning).

#### Gas council no.

Rated heating output range kW	Gas council no.
7.9 - 13	41-819-21
7.9 - 16	41-819-22
7.9 - 19	41-819-23
7.9 - 26	41-819-24
11.0 - 35	41-819-25

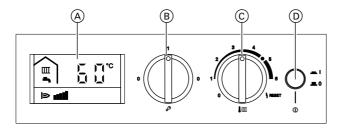
### Your system is preset at the factory

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

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

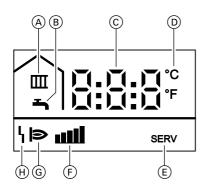
### Summary of controls and indicators

### Control and display elements



- A Display
- B Rotary selector "Service settings" (only for heating contractors)
- © IIII Rotary selector "Heating water temperature"
- (D) ON/OFF switch

### Indicators on display



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

### Operating mode of the heating system

### Operation without room temperature control unit

#### Operation with room temperature control unit

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 "#IIII" for the desired room temperature to be reached.

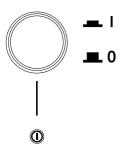
### Weather-compensated mode

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

### Start-up/shutdown

### 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.

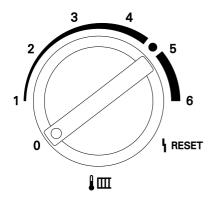


- **1.** Check that the heating system is full.
- 2. Open the gas shut-off valve.
- 3. Switch on the ON/OFF switch. Your heating system and room temperature control unit (if connected) are now ready for operation.

### Shutting down the heating system

### Switching the Vitodens off with frost protection

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



- 1. Turn rotary selector "III" to "0".
- **2.** Turn cylinder temperature controller (if provided) to "0" or lowest setting.

#### Note

Frost protection is now active for the boiler.

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

### Shutting down the heating system (cont.)

### Shutting down the heating system

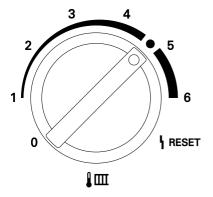
Shut down your heating system completely if it will not be needed for longer periods of time (several months).

We recommend you contact your local heating contractor if you are planning to take your heating system out of use for longer periods. Your heating contractor can then take any necessary action, subject to requirements, e.g. system frost protection or preserving the heating surfaces.

- Close the gas shut-off valve and safeguard against unauthorised reopening.
- Switch ON/OFF switch OFF.
   The power to the system is now switched off.
   Note that the system is no longer frost-protected.

### Settings

### Heating



#### Switching on:

#### Note

If a room temperature control unit is connected, use this unit to set the desired room temperature (see page 7).

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

#### Switching off:

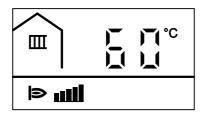
Turn rotary selector "**IIII ↓**" to "0".

#### **Domestic hot water**

If a DHW cylinder is part of your heating system, select the DHW temperature at the DHW cylinder controller.

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

## **Heating water temperature**



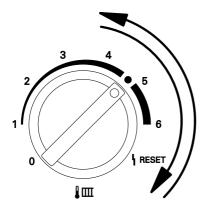
The boiler water temperature appears on the display at all times during operation.

# **System characteristics**

What to do if	Cause	Remedy
the heating system will	No mains voltage	Switch the ON/OFF switch ON
not start	Rotary selector	Setting the desired heating water
	" <b>▮</b> ∭" is on "0"	temperature (see page 10)
	Fuse/MCB in the	Notify your local heating contrac-
	power distribution board (domestic	tor
	mains fuse) or in	
	control unit has	
	blown/responded	
the burner is not started	No gas available	Open the gas shut-off valve and
or starts intermittently		if necessary check with your gas
		supply utility
	Control unit fault	Check the fault code on the dis-
		play (see page 13). Contact your local heating contractor with
		the fault code
the burner fails to start,	False start	Reset burner fault (see
fault message "\f" is dis-		page 13) – if this attempt to
played		start also fails, notify your heat-
		ing contractor
	Water shortage	Notify your local heating contrac-
the burner shuts down	Fault in the ventila-	tor  Notify your local heating contrac-
even if the rooms have not	tion air supply or	tor
reached their required tem-	flue system	
perature	Heating water tem-	Raise the heating water temper-
	perature or required	ature at rotary selector "▋ⅢI"
	room temperature	(see page 10) or increase the re-
	are set too low	quired room temperature (see
		remote control unit operating in-
	Air in the heating	structions) Bleed radiators
	system	Dieeu radiators
the rooms have not	Circulation pump	Notify your local heating contrac-
reached the required tem-	faulty	tor
perature, even though the		
burner is operational		

### System characteristics (cont.)

#### Reset burner fault (press Reset)

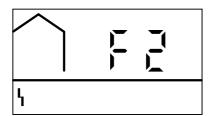


Turn rotary selector "IIII I to position "I RESET" for less than 2 s and then back to the control range.

### 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.



#### Maintenance

### 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 you enter an inspection and maintenance contract with your heating contractor.

#### **Boiler**

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

#### Logbook

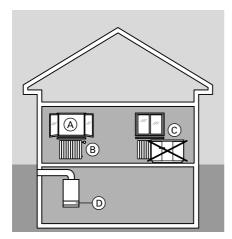
Please ensure that you have a Logbook supplied with your appliance. This Logbook should be completed by your installer to verify that the correct installation and commissioning procedure was followed.

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

### **Energy saving tips**

You can also save energy by taking the following steps:



- Correct ventilation.
  Briefly open window (A) fully and at the same time close the thermostatic valves (B).
- Never overheat rooms; endeavour to achieve a room temperature of 20 °C; you can save up to 6% on your heating bills for every degree you reduce your room temperature.
- Close roller shutters (where installed) at dusk.
- Never cover radiators © and thermostatic valves (B).
- Utilise the setting options offered by control unit ①.
- Only activate the DHW circulation pump if DHW is being drawn.
- Controlled DHW consumption: A shower generally uses less energy than a full bath.

#### 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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