

Operating instructions

for the system user

VIESSMANN

Gas fired wall mounted condensing boiler
with control unit for constant temperature operation



VITODENS 100-W



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.



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 qualified 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.

- Never smoke. Prevent naked flames and sparks. Never switch electrical lights or equipment 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 local heating contractor from outside the building.
- Shut off the electricity supply to the building from a safe place (outside the building).

If you smell flue gas



Danger

Flue gas can lead to life-threatening poisoning.

- Shut down the heating system.
- Vent the boiler room.
- Close all doors in the living space.

For your safety (cont.)

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

Index

Introductory information

Commissioning	5
Your system is preset at the factory	5
Certification details	5
General Description	5

Where to find the controls

Summary of controls and indicators	6
■ Control and display elements	6
■ Display indications	6
Changing the room temperature	7

Start-up/shutdown

Starting the heating system	8
-----------------------------------	---

Settings

Heating	9
DHW	9

Displays

Heating water temperature	10
---------------------------------	----

Switching OFF

Switching OFF Vitodens with frost protection	11
Shutting down the heating system	11

What to do if...

System characteristics	12
Fault display	13

Maintenance

Cleaning	14
Inspection and maintenance	14

Energy saving tips

.....	15
-------	----

Keyword index

.....	16
-------	----

Commissioning

The commissioning and matching of the control unit to local and structural conditions must be carried out by your local CORGI registered gas installer.

Your system is preset at the factory

The control unit is factory-set to standard operation.

This means that your heating system is ready for use.

The factory-selected standard settings can be modified to your individual requirements.

Note

All data is saved in case of power failure.

Certification details

The Vitodens 100-W is certified to comply with the requirements of relevant European Directives (90/396/EEC, 73/23 EEC and 92/42/EEC) for use in Great Britain and Ireland with gas category I2H (G20 with a governed gas supply at 20 mbar (8 in.wg) inlet pressure).

The appliance classification is either C13x or C33x depending upon whether a horizontal or vertical flue terminal is used.

General Description

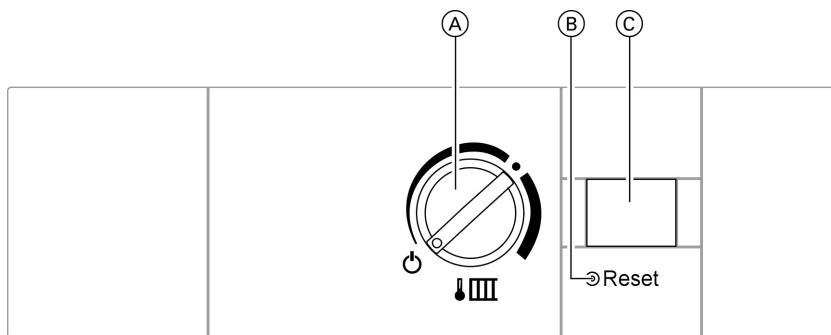
The Vitodens 100-W is a fully automatic, wall mounted, fan assisted balanced flue condensing boiler for use with natural gas (G20) at 20 mbar (8 in.wg) supply. For use in sealed or open vent systems.

The unit provides central heating with output between 8.0 kW to 13.0/18.0 kW/240.0 kW. If required, the central heating heat output can be range-rated to suit the system requirements. Heat output is automatically controlled according to demand.

Where to find the controls

Summary of controls and indicators

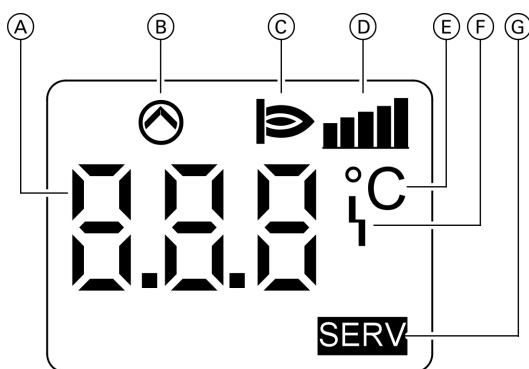
Control and display elements



(A) 🌡️📊 Rotary selector "Heating water temperature"

(B) Fault display/reset button
(C) Display

Display indications



(A) Display value or fault code
(B) Circulation pump in operation
(C) Burner in operation
(D) Current burner output

(E) Boiler primary water temperature in °C (combined with display value)
(F) Fault
(G) Emissions test switch (only for qualified personnel)

Changing the room temperature

In addition to the boiler control unit, a separate room temperature controller must be installed in one of the living rooms to comply with part L of the building regulations if the heating system is to be regulated in accordance with the required room temperature.

Make adjustments using the appropriate operating instructions.

Please also note:

It is not recommended that thermostatic radiator valves are installed in the same room as the controller.

If thermostatic radiator valves are installed in the room where the controller is fitted they must be fully open.

Start-up/shutdown

Starting the heating system

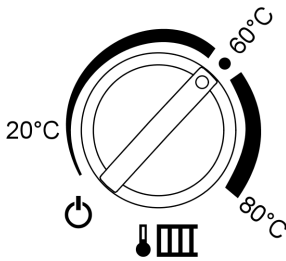
*The initial start-up must be carried out by your heating contractor.
Before you switch ON a heating system that has been switched OFF for longer periods, it would be advisable to contact your CORGI registered gas installer.*

Switch ON the mains power.
*Your heating system and, if installed,
your room temperature controller
Vitolrol 100 or similar programmable
room thermostat are now ready to
operate.*

Heating

If the room temperature controller Vitotrol 100, or similar programmable room thermostat is connected, then the room temperature is controlled from there. Observe the separate operating instructions.

Should the room temperature controller not produce sufficient heat (e.g. when it's very cold), the heating temperature can be changed at the rotary selector "🌡️ III".



Switching ON:

Set rotary selector "🌡️ III" to the required heating temperature.

Switching OFF:

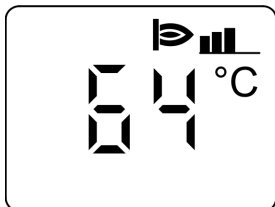
Turn heating rotary selector "🌡️ III" to "⏻".

DHW

When in operation with a separate DHW cylinder, DHW temperature is regulated at the temperature control on the DHW cylinder. This DHW cylinder thermostat is a required under part L of the building regulations

Displays

Heating water temperature

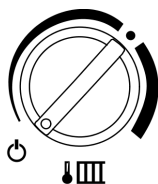


Checking the heating temperature

During operation, heating water temperature is constantly displayed.

Switching OFF Vitodens with frost protection

Switch OFF the equipment if you don't want to use the boiler for a few days.



Turn rotary selector "❄️" to "⏻".
Boiler frost protection is active.

Shutting down the heating system

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

Before you switch your heating system OFF for longer periods, it would be advisable to contact your CORGI registered installer, who will take any necessary measures, e.g. for frost protection of the system etc..

1. Close the main gas shut-off valve.
2. Switch OFF the mains power.
Now the system is idle.
Please note that the system is no longer frost protected.

What to do if...

System characteristics

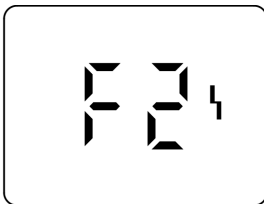
What to do if ...	Cause	Solution
... the heating system does not come on	System switched off	Switch on
	System controls including room thermostats not calling for heat.	Switch on system controls to create demand
	Rotary selector "↓III" is set to "⏻"	Set required heating water temperature (see page 9)
	Fuse/MCB has blown/responded (either at the fuse board or in the controls)	Contact your CORGI registered heating engineer
... the boiler does not switch ON (or switches ON infrequently)	No gas	Contact your CORGI registered heating engineer
	Control fault	Read off the fault codes in the display. Contact your CORGI registered heating engineer and report the fault codes.
... the burner does not ignite, the fault symbol "I" is displayed and "Reset" flashes red	False start	Press "Reset" button. If this attempt to start is also unsuccessful contact your heating engineer.
... the burner does not ignite, display shows fault symbol "I"	Control fault	Read off the fault codes in the display. Contact the CORGI registered heating engineer and report fault codes.



System characteristics (cont.)

What to do if ...	Cause	Solution
... the burner switches OFF although the desired room temperature has not been reached	Fault in air supply or in the flue	Contact your CORGI registered heating engineer.
	Heating water temperature or room temperature is set too low	Increase heating water temperature by turning rotary selector "↓ IIII" (see page 9) or increase desired room temperature (see room thermostat control manual).
... the rooms are cold, even though the burner is working	DHW priority	Switch OFF DHW demand or wait until demand is satisfied
	Fault on Vitotrol 100 or similar programmable room thermostat	Contact your CORGI registered heating engineer.

Fault display



Any faults in your heating system are indicated on the display by a flashing fault symbol "F".

Read off the fault code in the display and report it to your CORGI registered heating engineer.

Maintenance

Cleaning

The appliance casing can be cleaned using a damp cloth and a mild detergent. Do not use abrasive cleaners.

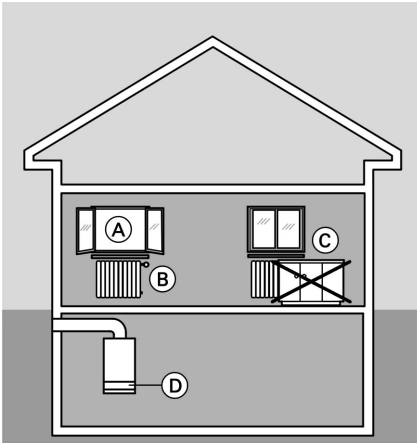
Inspection and maintenance

To ensure continued efficient operation of the appliance, it is recommended that it is checked and serviced at regular intervals. The frequency of servicing will depend upon the particular installation conditions and usage but in general once a year should be adequate. The law requires that any service work must be carried out by a competent CORGI registered engineer.

Energy saving tips

Apart from utilising the benefits of a modern heating systems, you can save additional energy by your own actions.

The following measures will be helpful:



- **Correct airing.**
Open windows (A) briefly whilst closing all thermostatic valves (B)
- **Never overheat;**
endeavour to achieve a room temperature of 20 °C; lowering the room temperature by each degree saves up to 6% off your heating bills.
- **Close shutters (if installed) on windows as dusk falls.**
- **Adjust thermostatic valves (B) correctly.**
- **Never cover radiators (C) and thermostatic valves (B).**
- **Make the best use of the adjustments offered by the control unit (D).**
- **Regulated DHW consumption:** A shower generally requires less energy than a bath.

Keyword index

Keyword index

C		G	
Cleaning	14	General Description	5
Commissioning	5	H	
Control elements	6	Heating water temperature	9
D		M	
DHW temperature	9	Maintenance	14
Display	6	R	
Display elements	6	Room temperature	7
F		S	
Factory settings of the heating system		Standard settings	5
5		Switching ON	8
Fault	12		
Frost protection	11		

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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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