Installation instructions

for contractors



Gas type conversion

For Vitodens 100-W and 111-W

Safety instructions



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.

Installation, initial start-up, inspection, maintenance and repairs must only be carried out by a competent person (heating engineer/installation contractor).

Before working on the equipment/heating system, isolate the power supply (e.g. by removing a separate mains fuse or by means of a mains isolator) and safeguard against unauthorised reconnection.

When using gas as fuel, also close the main gas shut-off valve and safeguard against unauthorised reopening.

Repairing components which fulfil a safety function can compromise the safe operation of your heating system. For replacements, use only original spare parts supplied or approved by Viessmann.

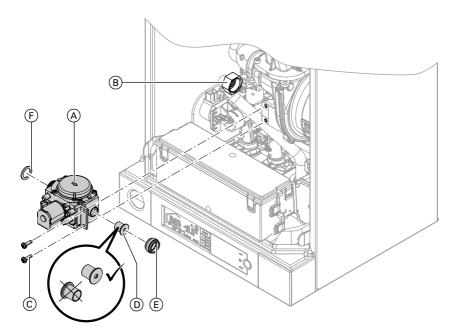
Opening the Vitodens



Installation and service instruc-

Conversion to gas type G31 - fitting the gas restrictor

Vitodens 100-W



- **1.** Disconnect cable from gas train (A).
- **2.** Undo union nut (B) and remove gasket (F).
- 3. Undo 2 screws © and remove gas train (A).
- **4.** Remove gasket (E) from gas train (A).
- **5.** Insert gas restrictor ① from the conversion kit into new gasket ②.

Note

Ensure the gas restrictor ① is fitted correctly.

- **6.** Mount gas train (A) with new gasket (E) and inserted gas restrictor (D). Torque for fixing screws (C): 6 Nm
- **7.** Mount gas pipe with new gasket \widehat{F} .

Torque for union nut (B): 30 Nm

Conversion to gas type G31 - fitting the gas... (cont.)

8. Start the boiler and check for leaks.



Danger

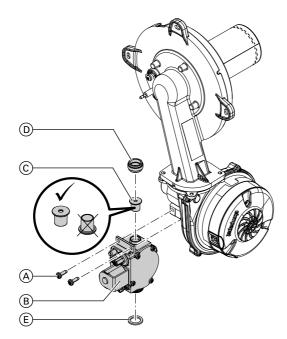
Escaping gas leads to a risk of explosion.
Check gas equipment for leaks.

Please note

The use of leak detection spray can result in faulty operation.

Leak detection spray must not come into contact with electrical contacts or block the diaphragm opening on the gas valve.

Vitodens 111-W



1. Remove the burner.



Installation and service instructions

2. Undo 2 screws (A) and remove gas train (B).

3. Remove gasket D from gas train A.



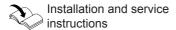
Conversion to gas type G31 - fitting the gas... (cont.)

4. Insert gas restrictor © from the conversion kit into new gasket ①.

Note

Ensure the gas restrictor © is fitted correctly.

- 6. Install the burner.
 Mount gas pipe with new gasket
 (E).
 Torque for union nut: 30 Nm



7. Start the boiler and check for leaks.



Installation and service instructions



Danger

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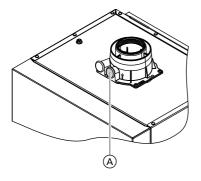
Changing the gas type at the control unit

- 1. Turn on the ON/OFF switch.
- 2. Tap MODE.
- 3. ▲/▼ repeatedly until CONFI flashes.
- OK to confirm.
 "P" is shown in the l.h. display area. The r.h. display area flashes.
- Use **▲/▼** to select "12".
- 6. OK to confirm."1" flashes in the l.h. display area.
- 7. Use **△/**▼ to select "5".

- OK to confirm.
 The value currently selected flashes in the r.h. display area.
- 9. Use **△**/▼ to change the control unit to the available gas type.
 - Gas types P (G31): "1"
- 10. OK to confirm.
- Turn the ON/OFF switch off and back on again.
 The selected operating mode is

The selected operating mode is saved.

Checking the CO₂ content



- 2. Start the boiler.
- Set the upper heating output: See chapter "Setting the heating output".
- 4. Measure the CO₂ content for the upper heating output. The CO₂ content must be within the following ranges for the respective gas type. See table.

Gas type	CO ₂ content
	(limit values)
	in %
P (G31)	10.0 – 12.0

- Set the lower heating output: See chapter "Setting the heating output".
- 6. Measure the CO₂ content for the lower heating output. The CO₂ content must be at least 0.5 % below the value for the upper heating output.
- If the CO₂ content is within the indicated range, continue with point 9.
 - If the CO₂ content is **not** within the indicated range, check the flue gas/ventilation air system for tightness; remedy any leaks. Replace the gas train if required.



Checking the CO₂ content (cont.)

- Measure the CO₂ content for the upper and lower heating output again.
- Shut down the boiler, remove the flue gas analyser and close flue gas test port (A).
- 10. Enter limit values for the selected gas type (see table) in chapter "Gas type conversion" in the installation and service instructions for the boiler.

Setting the heating output (test mode)

- 1. Turn on the ON/OFF switch.
- 2. Tap MODE.
- 3. ▲/▼ repeatedly until SERV flashes.
- OK to confirm.
 The current heating output is shown on the display.

Shown or display	1	Burner output in %
		0
_	20	20
	40	40
	60	60
	80	80
	99	100

- Use ▲/▼ to select the required heating output.
 - Upper heating output (100 %):
 - ____99
 - Lower heating output (20%): _ 20

Terminating test mode

- 1. Tap MODE.
- 2. ▲/▼ repeatedly until SERV flashes.
- **3. OK** to confirm. The selected heating output is shown on the display.
- 4. ▼ until "- -" flashes.
- OK to confirm.
 Test mode has terminated. SERV is no longer displayed.

Starting the boiler

- 1. Affix the label supplied for the applicable gas type next to the type plate on the top of the boiler.
- **2.** Mount the front panel and start the boiler.

Note

The delivered condition shown on the type plate then no longer applies.

Subject to technical modifications.







Viessmann Werke GmbH & Co. KG D-35107 Allendorf Telephone: +49 6452 70-0

Fax: +49 6452 70-2780 www.viessmann.com

Viessmann Limited Hortonwood 30, Telford Shropshire, TF1 7YP, GB Telephone: +44 1952 675000

Telephone: +44 1952 675000 Fax: +44 1952 675040 E-mail: info-uk@viessmann.com