

Installation instructions

for heating engineers

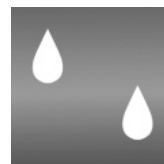
VIESSMANN

Vitodens 200

Type **WB2A**, 8.8 to 26.0 kW

Gas fired wall mounted condensing boiler

Natural gas and LPG version



VITODENS 200



Safety instructions



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

Safety instructions explained



Important information

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

Safety regulations

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

Observe all current safety regulations as defined by DIN, EN, DVGW, TRGI, TRF, VDE or all locally applicable standards.

See also the "safety instructions" in the "Vitotec Technical Guide" folder.

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

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

Electrical assemblies provided on site must be type-approved.

Work on gas equipment

This must only be carried out by an approved gas fitter.

Observe all commissioning work specified for gas installations to TRGI or TRF and all local regulations.

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Product information

Vitodens 200, Type WB2A

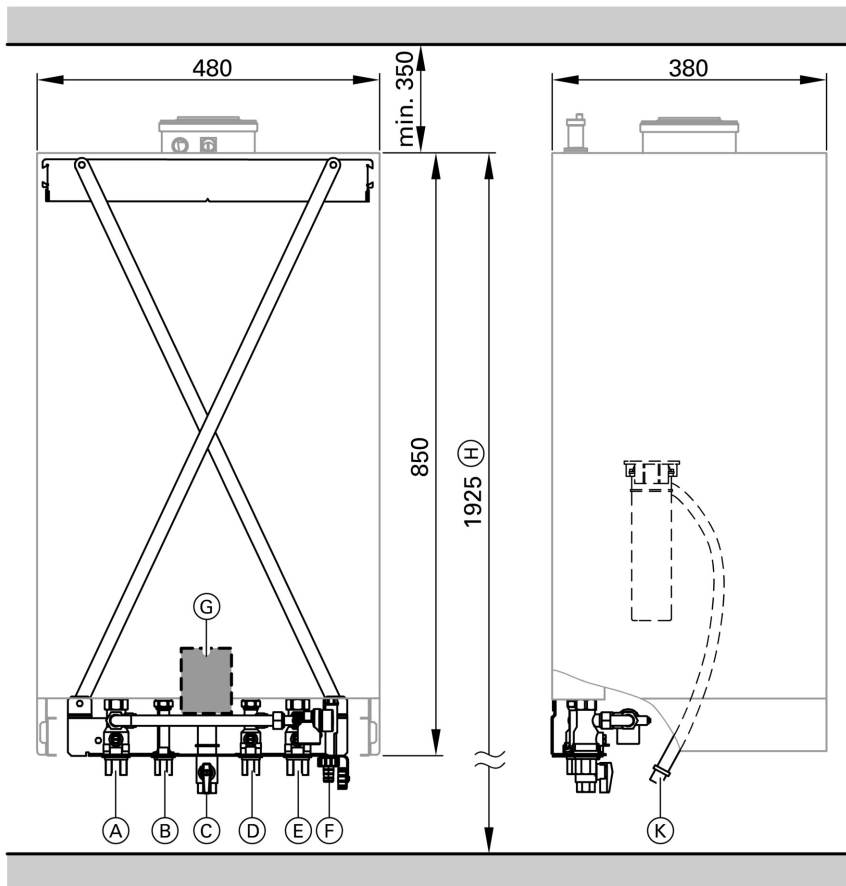
Set up for operation with natural gas E.

The natural gas E version can be converted to natural gas LL or LPG P using a conversion kit.

Preparations for boiler installation



For on-site preparation of gas, water and electrical connections, see installation instructions, installation template or mounting frame.

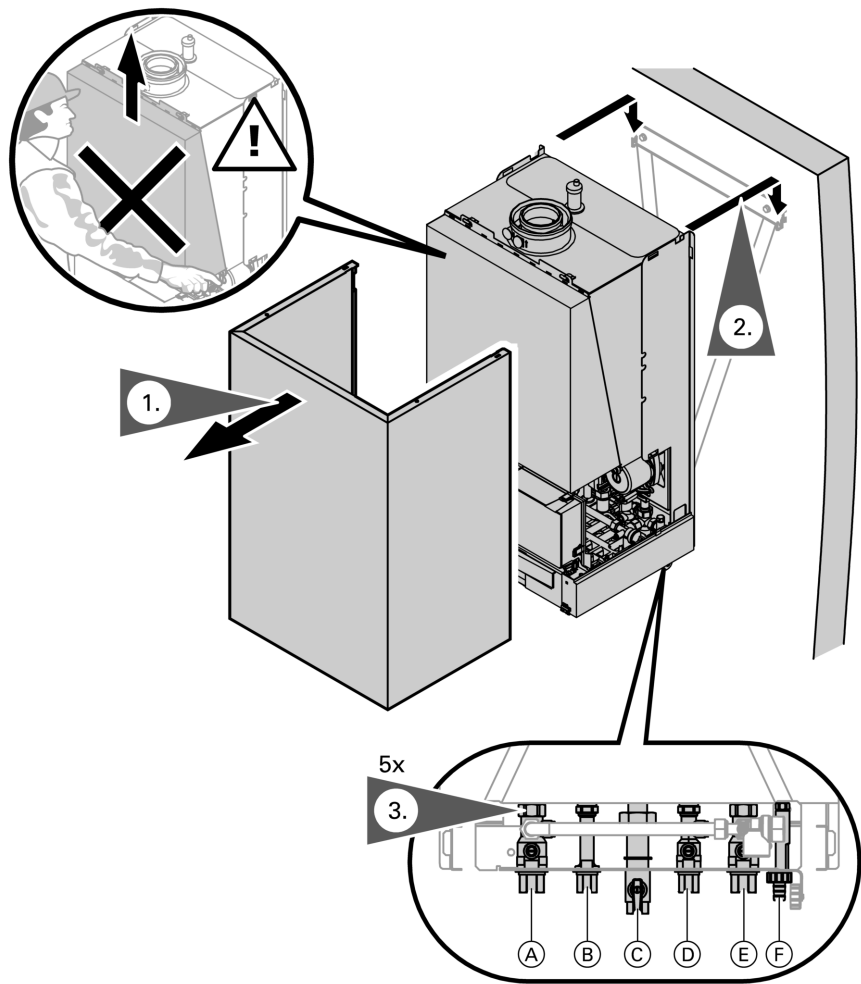


- | | |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| (A) Heating flow Rp $\frac{3}{4}$ " | (E) Heating return Rp $\frac{3}{4}$ " |
| (B) DHW Rp $\frac{1}{2}$ " (gas fired combination boiler)
DHW flow G $\frac{3}{4}$ " (gas fired boiler) | (F) Fill & drain valve |
| (C) Gas connection | (G) Cable arrangement area |
| (D) Cold water Rp $\frac{1}{2}$ " (gas fired combination boiler)
DHW return G $\frac{3}{4}$ " (gas fired boiler) | (H) Dimension for installation with DHW cylinder below the boiler. |
| | (K) Condensate drain |

Preparations for boiler installation (cont.)

1. Prepare the water connections.
Thoroughly flush the heating system.
2. Prepare the gas connection according to TRGI or TRF or all local regulations.
3. Prepare the electrical connections.
 - Mains cable: NYM-J 3 x 1.5 mm², fuse max. 16 A, 230 V~, 50 Hz.
 - Accessory cables: NYM with the required number of conductors for the external connections.
 - All cables in area "Ⓞ" should protrude 1200 mm from the wall.

Installing the boiler and making all connections



- (A) Heating flow
- (B) DHW (gas fired combination boiler)
DHW flow (gas fired boiler)
- (C) Gas connection

- (D) Cold water (gas fired combination boiler)
DHW return (gas fired boiler)
- (E) Heating return
- (F) Fill & drain valve

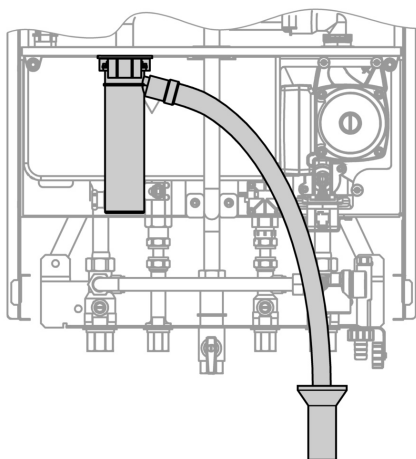
Flue gas connection

Connect the balanced flue pipe.



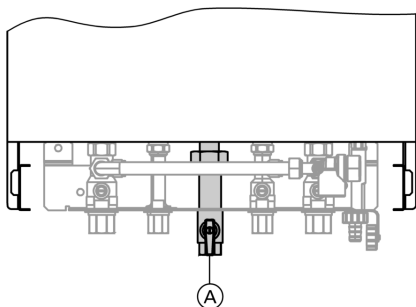
Flue gas system installation instructions.

Condensate connection



Connect the condensate drain with a pipe air vent valve sloping to the public sewer.

Gas connection



Conversion to other gas types:

Conversion kit installation instructions

Information regarding operation with LPG

We recommend the installation of an external safety solenoid valve when installing the boiler in rooms below ground level.

Ⓐ Gas connection

Gas connection (cont.)

1. Carry out a leak test.

2. Purge the gas supply pipe.

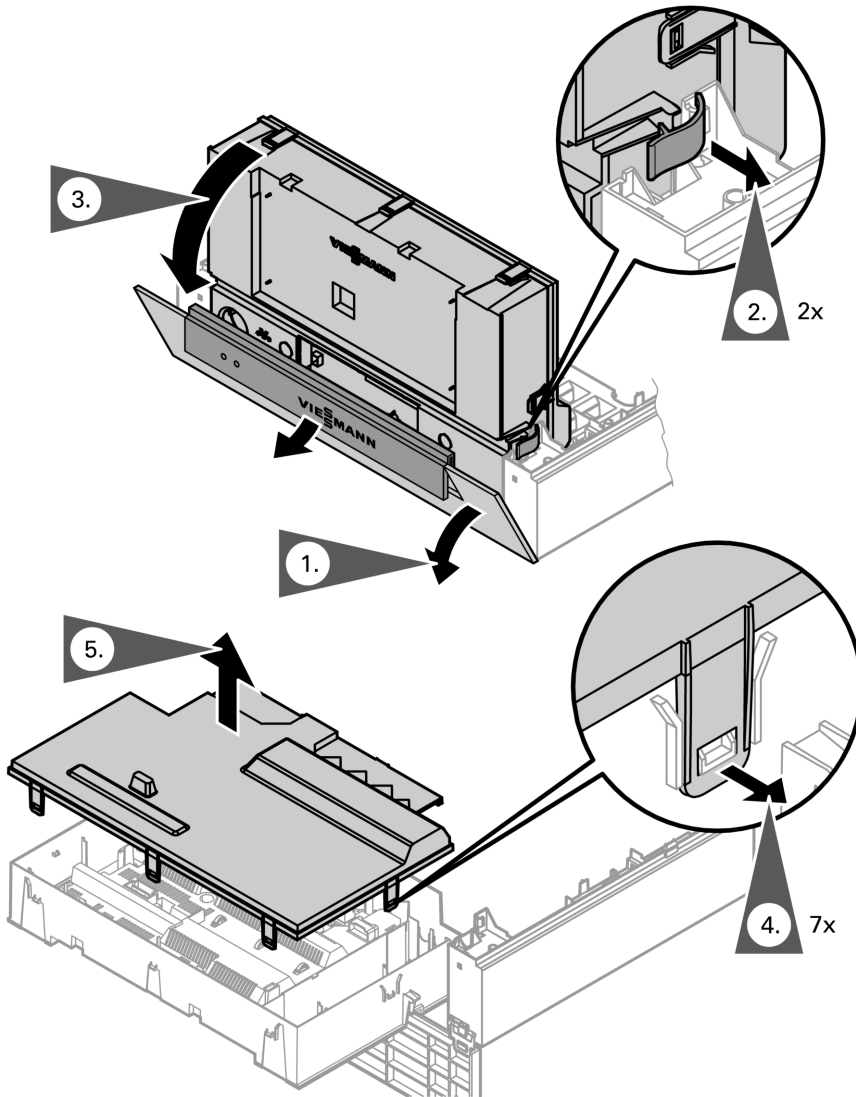


Important information

Excessive test pressure leads to damage on boiler and gas train.

Max. test pressure 150 mbar. If a higher pressure is required for leak tests, separate the boiler and the gas train from the mains gas supply (undo fittings).

Opening the control unit housing

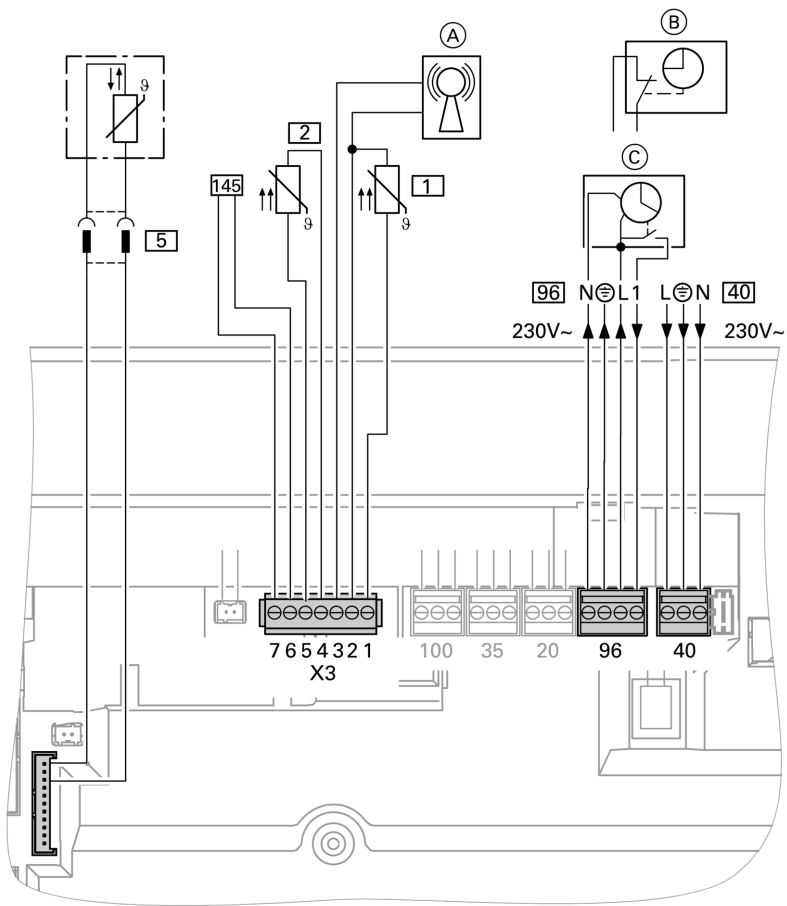


Electrical connections



Notes regarding the connection of accessories

For details of accessories also observe the separate installation instructions provided.



(A) Radio clock connection

(B) Vitotrol 100 UTD (only for control units operating with a constant temperature)

(C) Vitotrol 100 UTA (only for control units operating with a constant temperature)

Electrical connections (cont.)

Plug 230 V~

- 40 Power supply
 - Never interchange cores "L1" and "N".
 - Install an isolator in the mains supply line which simultaneously separates all non-earthed conductors from the mains with at least 3 mm contact separation.
 - Max. fuse rating 16 A.
- 96 Mains supply - accessories (230 V ~ 50 Hz). Where the boiler is installed in a bathroom or shower room, the mains supply of accessories outside the wet area must not be connected to the control unit. The power supply connection for accessories can be made immediately at the control unit, if the boiler is installed outside damp areas. This connection is directly controlled with the system ON/OFF switch (max. 3A).
 - Vitotrol 100 UTA
 - Vitotrol 100 UTD

Low voltage plug

- 1 Outside temperature sensor (only for weather-compensated mode)
Installation
 - North or northwestern wall, 2 to 2.5 m above ground level. In multi-storey buildings, in the upper half of the second floor
 - Not above windows, doors or ventilation outlets
 - Not immediately below balcony or gutter
 - Do not render over
 - Two core cable with a maximum length of 35 m and a cross-section of 1.5 mm²
- 2 Flow temperature sensor for low loss header (accessories)
- 5 Cylinder temperature sensor (part of the DHW cylinder connection set)
- 145 KM BUS user (accessory)
 - Vitotrol 200 or 300 remote control
 - Vitocom 100
 - Extension kit for one heating circuit with mixer
 - Vitosolic
 - External extension H1 or H2

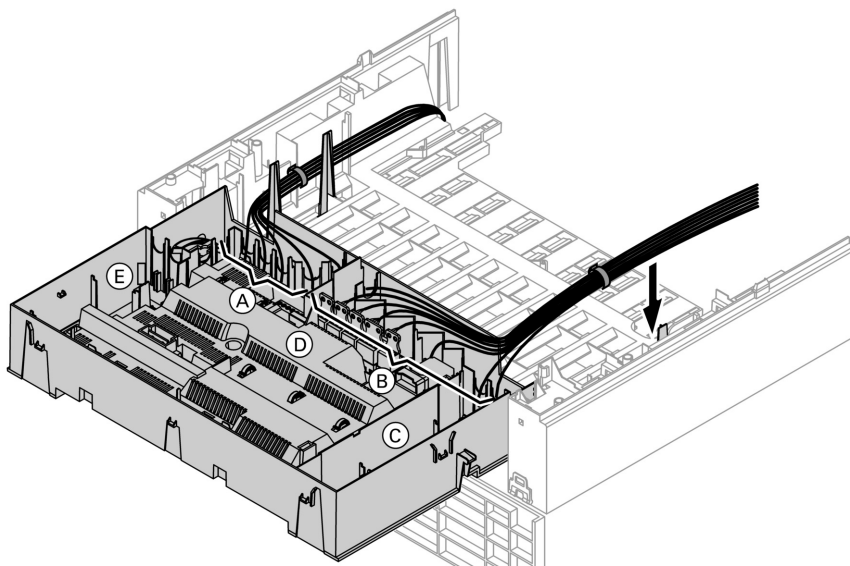
Electrical connections (cont.)

Routing connecting cables



Important information

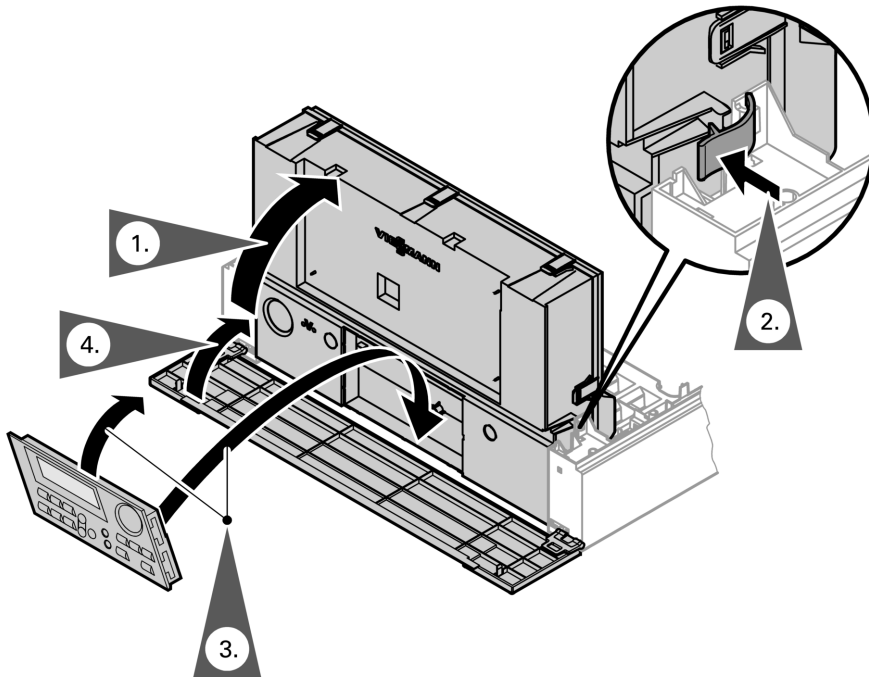
Connecting cables are damaged if they touch hot components. When routing and securing connecting cables on site, ensure that the maximum permissible cable temperatures are not exceeded.



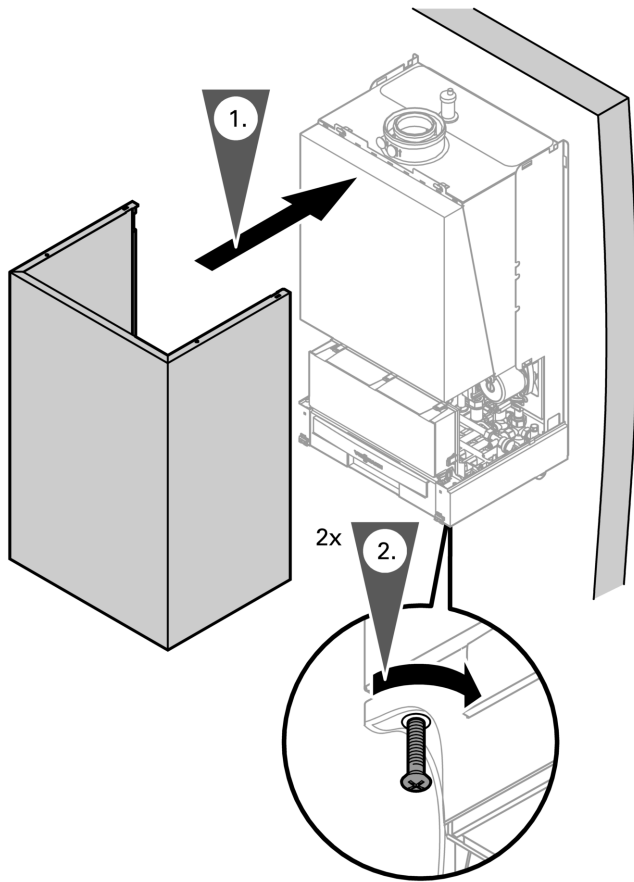
- Ⓐ Low voltage connections
- Ⓑ 230 V connections
- Ⓒ Internal extension

- Ⓓ Main PCB
- Ⓔ Communications module

Closing control unit housing and inserting user interface



Front panel installation



Commissioning and adjustments



For commissioning and adjustment, see service instructions.

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