Installation instructions



for contractors

Vitodens 200 Type WB2A, 8.8 to 26.0 kW Wall mounted gas fired condensing boiler Natural gas and LPG version



VITODENS 200



10/2006

Dispose after installation.

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.

Target group

These instructions are exclusively designed for qualified personnel.

- 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.

Regulations

Observe the following when working on this system

- all legal instructions regarding the prevention of accidents,
- all legal instructions regarding environmental protection,
- the Code of Practice of relevant trade associations,
- all current safety regulations as defined by DIN, EN, DVGW, TRGI, TRF, VDE and all locally applicable standards.

Working on the system

- Isolate the system from the power supply and check that it is no longer 'live', e.g. by removing a separate fuse or by means of a mains isolator.
- Safeguard the system against unauthorised reconnection.
- When using gas as fuel, also close the main gas shut-off valve and safeguard against unauthorised reopening.

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Product information

Vitodens 200, WB2A

Set up for operation with natural gas E. For conversion to natural gas LL and LPG P (with conversion kit), see the installation instructions.

Conversion for other target countries

The Vitodens 200 should generally only be delivered to those countries specified on the type plate. For deliveries to alternative countries, an approved contractor must arrange, on his own initiative, for an individual approval in accordance with the law of the land.

Preparing for installation

Preparing the boiler installation

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



A Heating flow Rp ³/₄"

© Gas connection

- B DHW Rp ½" (gas fired combi boiler)
- Cylinder flow G ¾" (gas fired boiler)
- Cold water Rp ½" (gas fired combi boiler)
 Cylinder return G ¾" (gas fired boiler)
- (E) Heating return Rp ¾"
- F Fill & drain valve

Preparing for installation (cont.)

G Cable entry

- (H) Dimension with DHW cylinder below.
- K Condensate drain

Note

This boiler (protection level: IP X4 D) is approved for installation in wet rooms inside protection area 1 according to DIN VDE 0100, providing the occurrence of hosed water can be excluded.

Observe the requirements of DIN VDE 0100.

1. Prepare the water connections. Flush the heating system thoroughly.

- 2. Prepare the gas connection according to TRGI or TRF or all local regulations.
- 3. Prepare the electrical connections.
 - Power supply 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.
 - Allow all cables in area "G" to protrude 1200 mm from the wall.

Installing the boiler and making all connections

Note

Quick-acting air vent valve and connector for the expansion vessel packed separately.



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Installing the boiler and making all connections (cont.)

- © Gas connection
- D Cold water (gas fired combi boiler) Cylinder return (gas fired boiler)
- (E) Heating return
- F Fill & drain valve

Flue connection

Connect the balanced flue pipe.

Flue gas system installation instructions.

Condensate connection



Connect the condensate drain with a slope and a pipe vent to the public sewer.

Gas connection



(A) Gas connection

Notes regarding operation with LPG.

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

1. Carry out a gas soundness test.

Please note

- Excessive test pressure may damage the boiler and the gas valve. Max. test pressure 150mbar. Where higher pressure is required for leak tests, separate the boiler and the gas valves from the mains gas supply pipe (undo the fitting).
- 2. Vent the gas supply pipe.
 - Conversion to other gas types:

Conversion kit installation instructions

Opening the control unit enclosure





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Electrical connections

├── Information regarding the connection of accessories

For details of accessories, also observe their separate installation instructions.

Please note

Electronic modules can be damaged by electro-static discharges. Touch earthed objects, such as heating or water pipes, to discharge static loads.



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A Radio clock receiver

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Electrical connections (cont.)

- (B) Vitotrol 100 UTD (only for constant temperature control units) Remove jumper when making this connection.
- Vitotrol 100 UTA (only for constant temperature control units)
 Remove jumper when making this connection.

230 V~ plugs

40 Power supply



Danger

Incorrect core terminations can cause severe injuries and damage to the equipment.

Take care not to interchange wires "L1" and "N".

- Install an isolator in the power supply line which simultaneously separates all nonearthed conductors from the mains with at least 3 mm contact separation.
- Max. fuse rating 16 A.
- Power supply accessories (230 V ~ 50 Hz). Where the boiler is installed in a wet area, the connection of accessories to the power supply must not be carried out at the control unit. The power supply connection for accessories can be made immediately at the control unit, if the boiler is installed outside wet areas. This connection is directly controlled with the system ON/OFF switch (max. 3 A).
 - Vitotrol 100 UTA
 - Vitotrol 100 UTD

Low voltage plugs

- Outside temperature sensor (only for weather-compensated control units). Installation:
 - North or north-western 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 balconies or gutters
 - Never render over
 - 2-core cable, max. 35 m length with 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 (accessories)
 - Vitotrol 200 or 300 remote control
 - Vitocom 100
 - Extension kit for a heating circuit with mixer
 - Vitosolic
 - External extension H1 or H2

Electrical connections (cont.)

Routing connecting cables

Please note

Connecting cables will be damaged if they contact hot parts. When routing and securing connecting cables on site, ensure that the maximum permissible temperatures for these cables are not exceeded.



- A Low voltage connections
- B 230 V connections
- © Internal extension
- D Main PCB
- (E) Communications module

Remove the existing cable grommet when using larger cross-sections (up to Ø14 mm). Secure the cable with the cable grommet (F) (black) integrated into the casing base.

- Cable grommet for power supply
 ____ cable
- 5 Plugs for connecting the cylinder temperature sensor to the cable harness



Closing the control unit enclosure and inserting the programming unit

Front panel installation



Commissioning and adjustment

For commissioning and adjustment, see service instructions.

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