

Installation instructions

for contractors

VIESSMANN

Vitorondens 200-T

Type J2RA, 67.6 to 107.3 kW

Oil Unit condensing boiler



VITORONDENS 200-T



Safety instructions



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

Safety instructions explained



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 intended for qualified contractors.

- Work on electrical equipment must only be carried out by a qualified electrician.

Regulations

Observe the following when working on this system:

- National installation regulations
- Statutory regulations regarding the prevention of accidents
- Statutory regulations regarding environmental protection
- The Code of Practice of relevant trade associations
- All current safety regulations as defined by DIN, EN, DVGW, VDE and all locally applicable standards
 - Ⓐ ÖNORM, EN and ÖVE
 - ⓢ CH SEV, SUVA, SVTI, SWKI and SVGW

Working on the system

- Isolate the system from the power supply (e.g. by removing the separate fuse or by means of a mains isolator) and check that it is no longer 'live'.
- Safeguard the system against reconnection.

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Intended use

The appliance is only intended to be installed and operated in sealed unvented heating systems that comply with EN 12828, with due attention paid to the associated installation, service and operating instructions. It is only designed for the heating of water that is of potable water quality.

Intended use presupposes that a fixed installation in conjunction with permissible, system-specific components has been carried out.

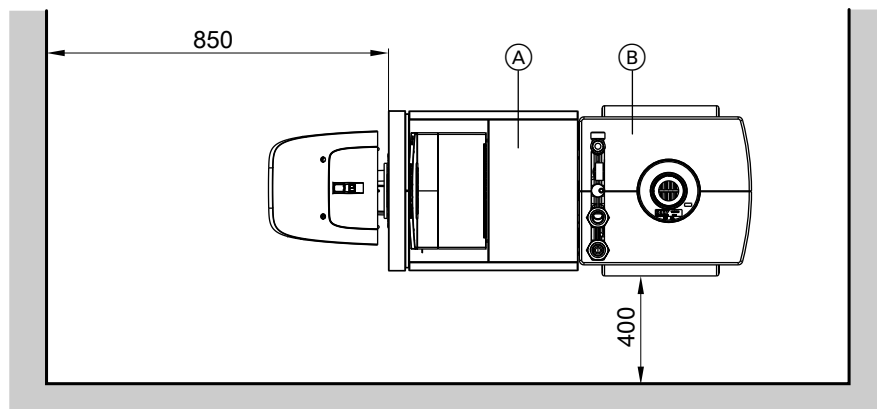
Commercial or industrial usage for a purpose other than heating the building or DHW shall be deemed inappropriate.

Any usage beyond this must be approved by the manufacturer for the individual case.

Incorrect usage or operation of the appliance (e.g. the appliance being opened by the system user) is prohibited and results in an exclusion of liability. Incorrect usage also occurs if the components in the heating system are modified from their intended use (e.g. if the flue gas and ventilation air paths are sealed).

Siting

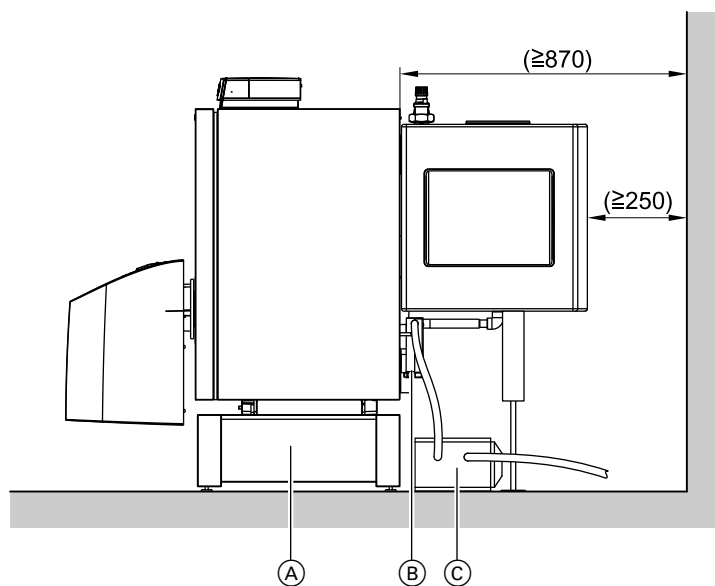
Clearance dimensions



(A) Boiler

(B) Heat exchanger

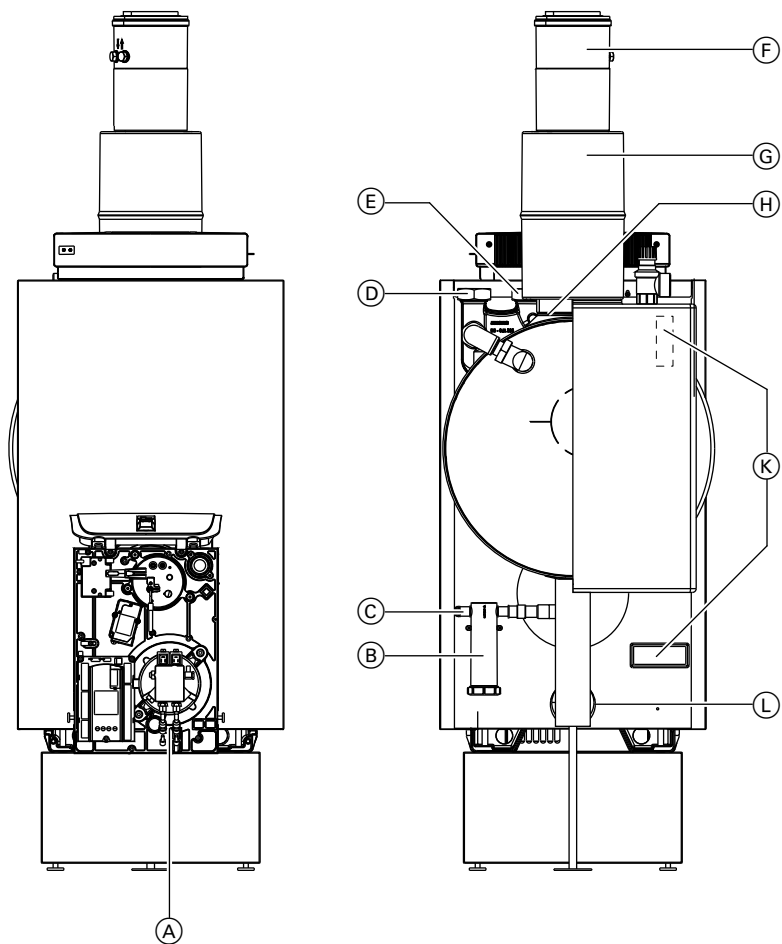
Siting (cont.)



- (A) Plinth (accessories)
- (B) Siphon

- (C) Neutralising system (accessories)

Overview of connections



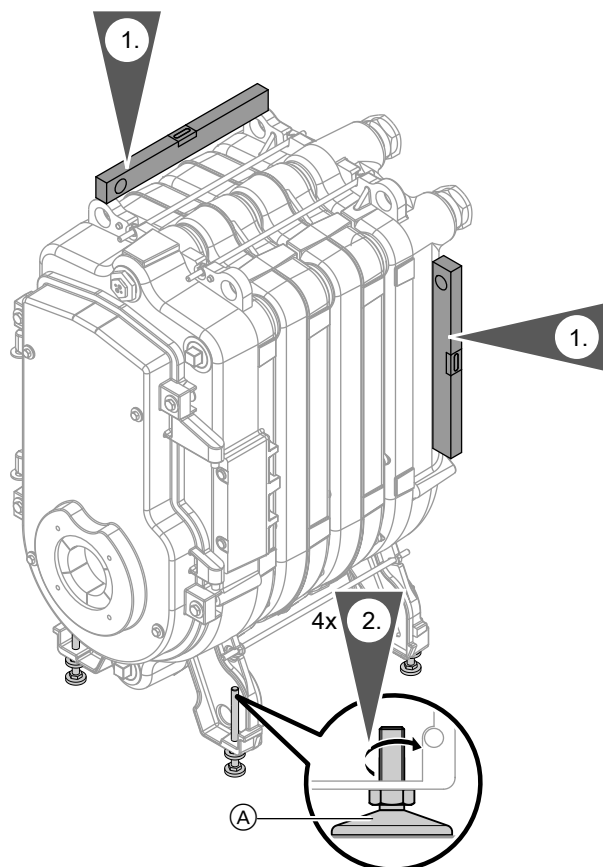
- Ⓐ Oil line connection
- Ⓑ Siphon
- Ⓒ Condensate drain
- Ⓓ Cylinder and heating return G 2
- Ⓔ Cylinder and heating flow G 2
- Ⓕ Boiler flue connection

- Ⓖ Silencer (accessories)
- Ⓗ Flue outlet
- Ⓚ Wiring area
- Ⓛ Drain/filling/diaphragm expansion vessel connection

Siting and levelling the boiler

Note

Remove and retain the bag containing the boiler type plate. The type plate is later affixed to the side panel.



Siting and levelling the boiler (cont.)

Positioning without a plinth

Wind adjustable feet ① approx. 85 mm out of the boiler.

Note

*The adjustable feet height of **85 mm** is **essential** for mounting the oil burner later.*

Positioning on a plinth

Replace adjustable feet ① with hexagon screws supplied.

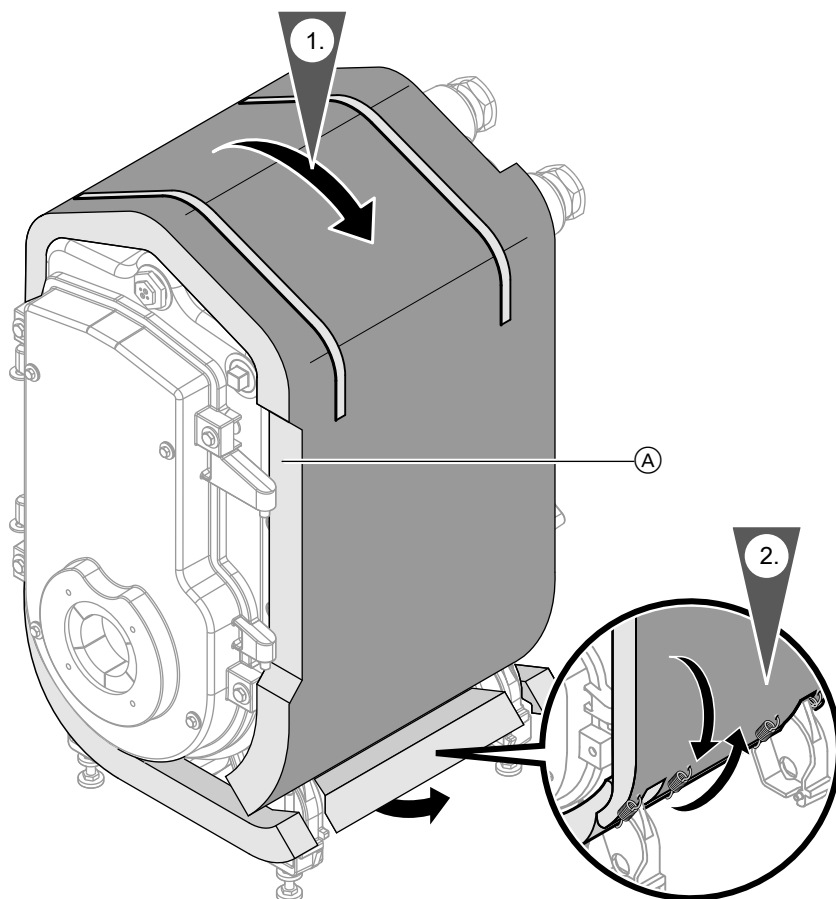


Installation instructions on the plinth pack

Fitting the thermal insulation

Note

All components required for mounting can be found in the thermal insulation box.



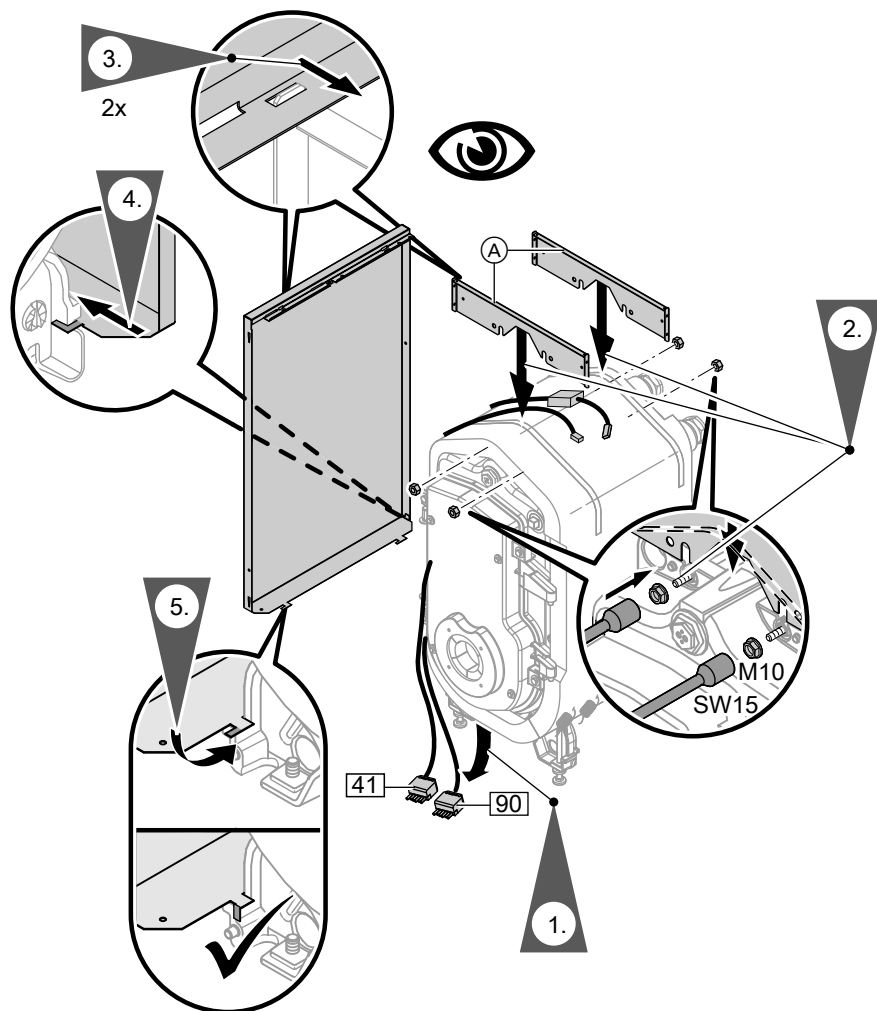
(A) Notch should face the front

Secure the thermal insulation jacket with 4 spring hooks.

Fitting the thermal insulation (cont.)

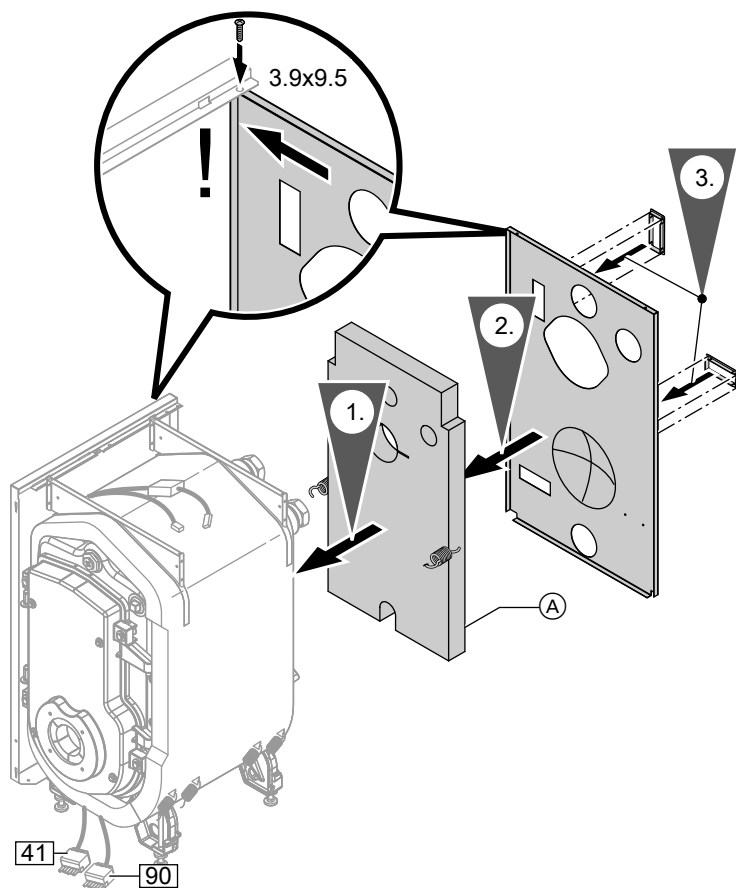
Note

Burner cable **41** and extension for two-stage/modulating burner with cables **90** are supplied inside the thermal insulation pack.



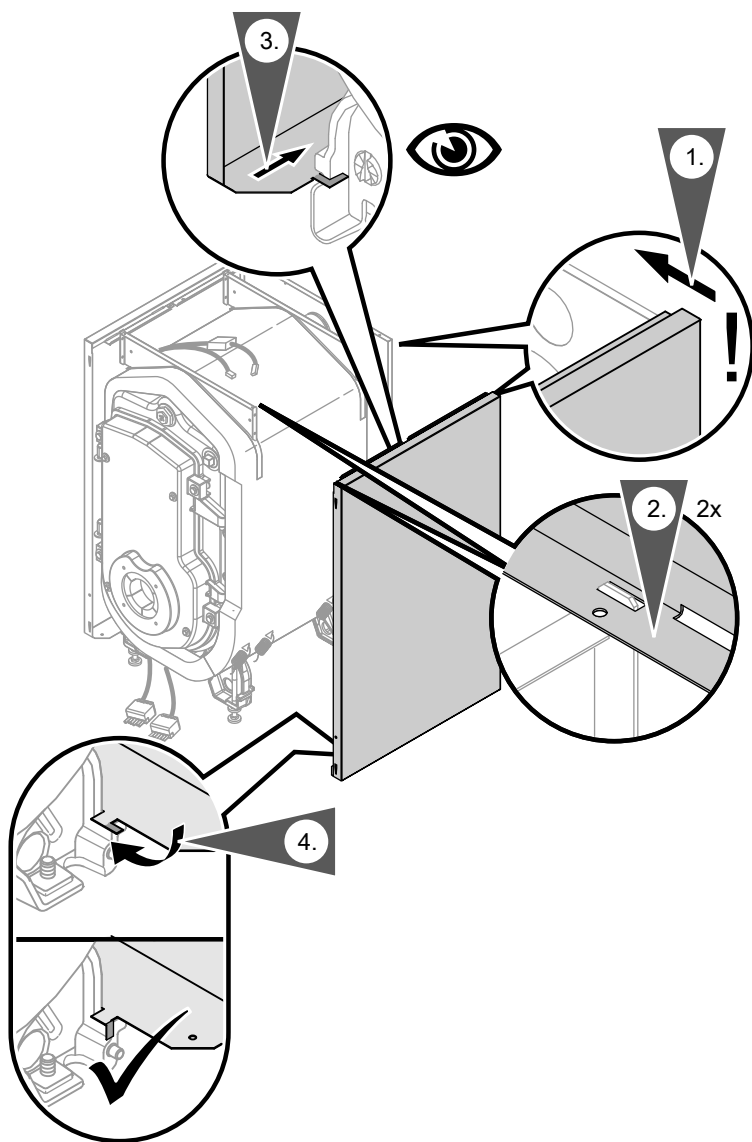
(A) Folded edge should face the front

Fitting the thermal insulation (cont.)

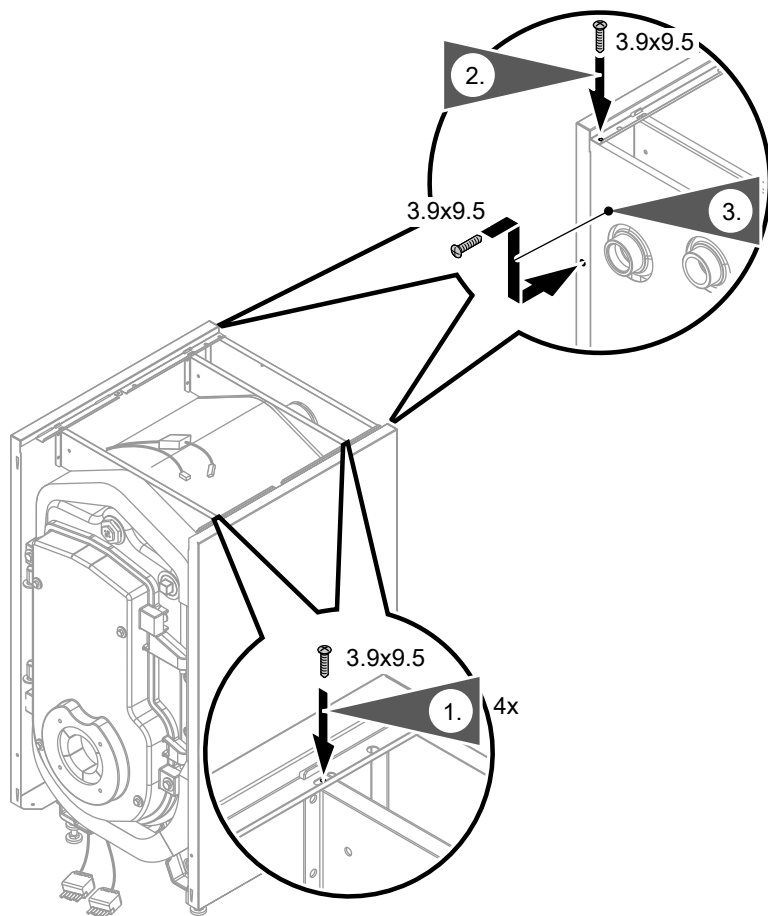


(A) Black side should face outwards

Fitting the thermal insulation (cont.)



Fitting the thermal insulation (cont.)



Opening the control unit and connections to the control unit:



Boiler control unit installation instructions



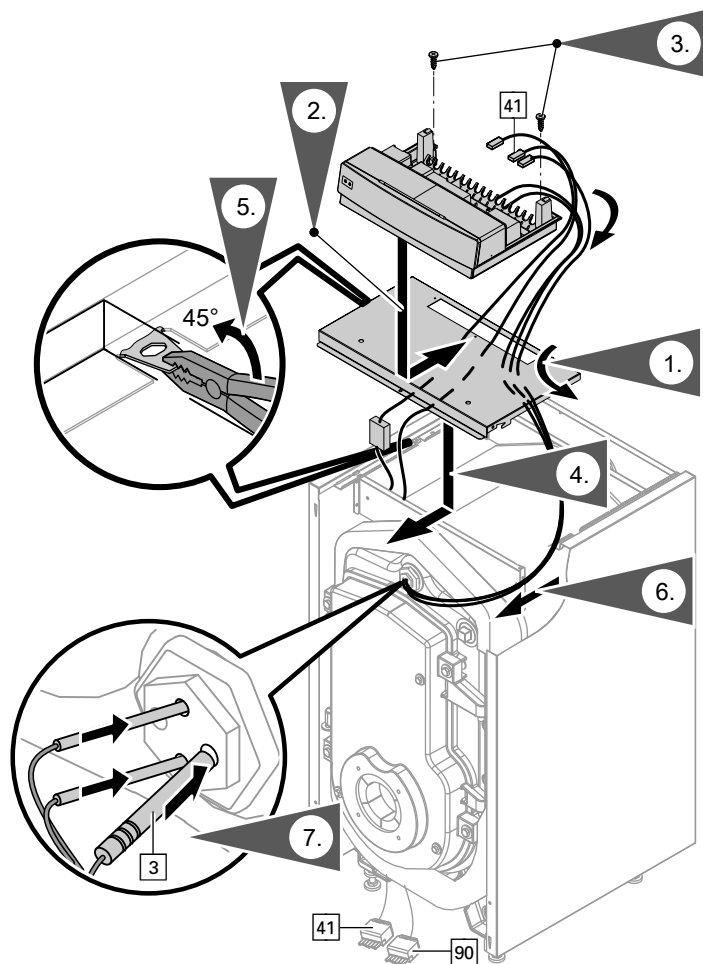
Please note

Damaged capillary tubes will result in faulty sensor function.
Never kink the capillary tubes.

Note

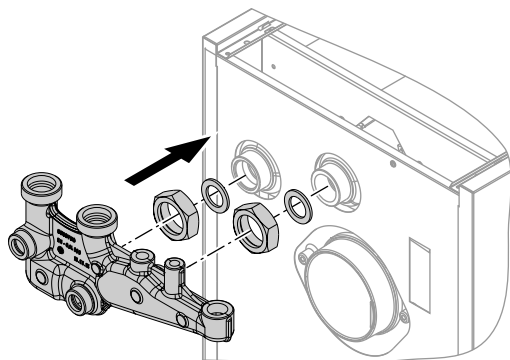
- Boiler water temperature sensor [3] is supplied in the control unit pack.
- Insert sensors and boiler water temperature sensor [3] into the sensor well as far as they will go.
- Mains plug [40] is supplied in the control unit pack.

Fitting the thermal insulation (cont.)



Fitting the heat exchanger to the boiler

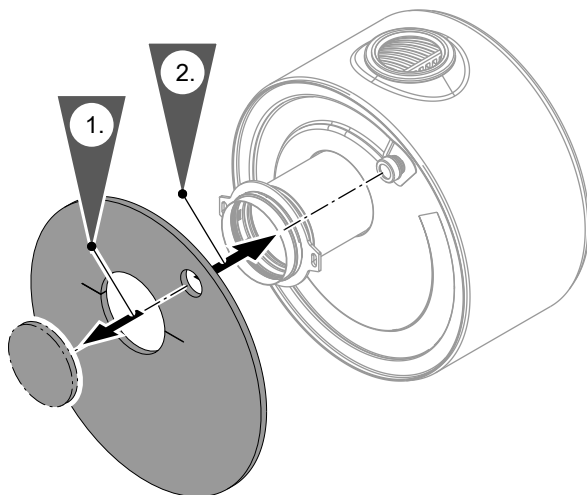
Mounting the BF/BR distributor



Note

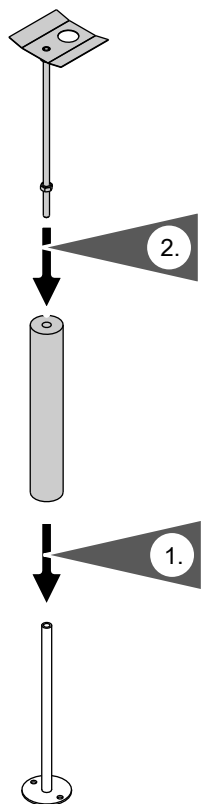
On delivery, the return injector nozzle must be fitted in the boiler return.

Preparing for mounting the heat exchanger



Fitting the heat exchanger to the boiler (cont.)

Preparing for mounting the support

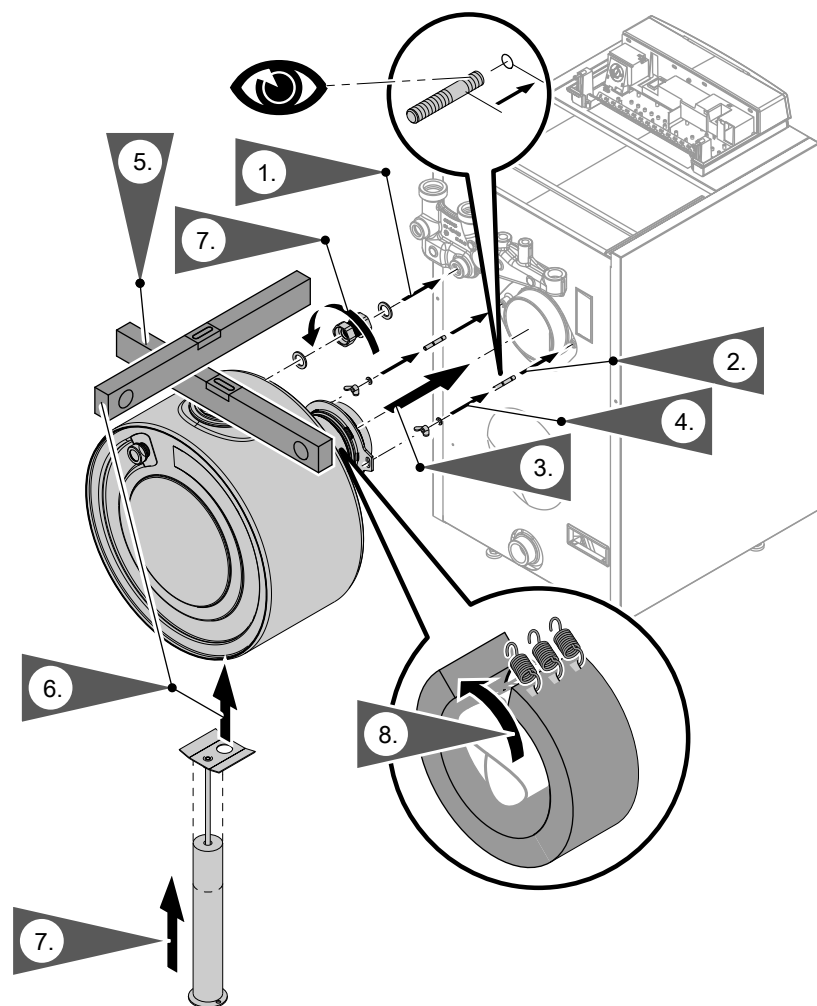


Fitting the heat exchanger to the boiler (cont.)

Mounting the heat exchanger

Note

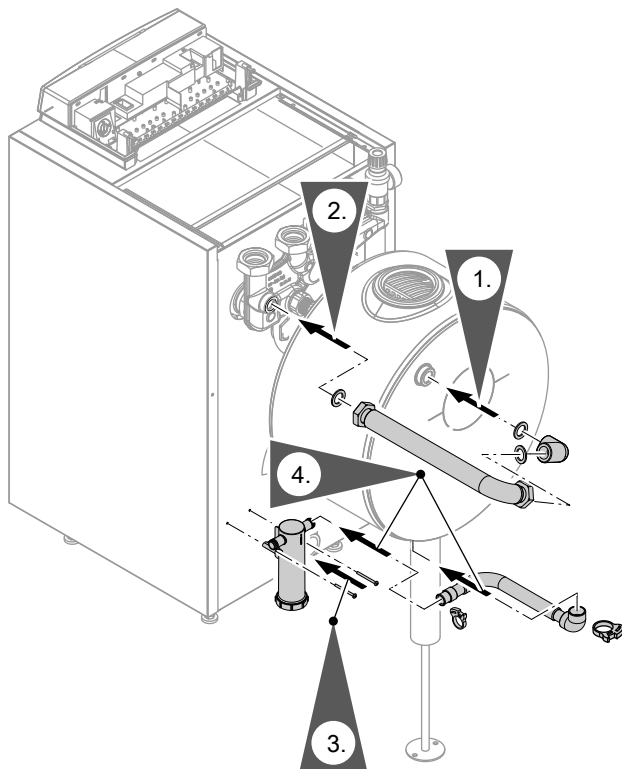
The flue outlet flange can be turned.



Fitting the heat exchanger to the boiler (cont.)

- Align the heat exchanger with the support.
- Secure the support to the floor, if necessary.
- Push the hose upwards.

Fitting the pipework and siphon

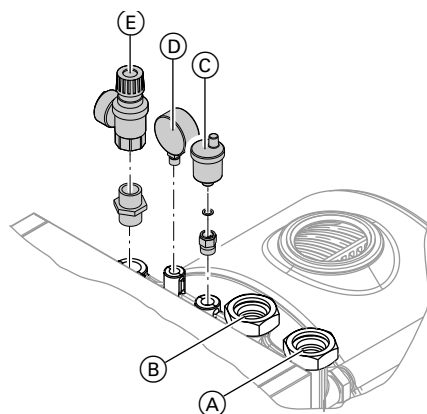


- Manually bend flexible pipe into the required shape.
- Fit all connections on the heating water side with matching flat gaskets.
- Tighten threaded fittings to a torque of 75 to 80 Nm.

Note

Never grease or oil the siphon fitting and gaskets.

Connections on the heating water side



- (A) Cylinder and central heating return
- (B) Cylinder and central heating flow
- (C) Quick-action air vent valve
- (D) Pressure gauge
- (E) Safety valve

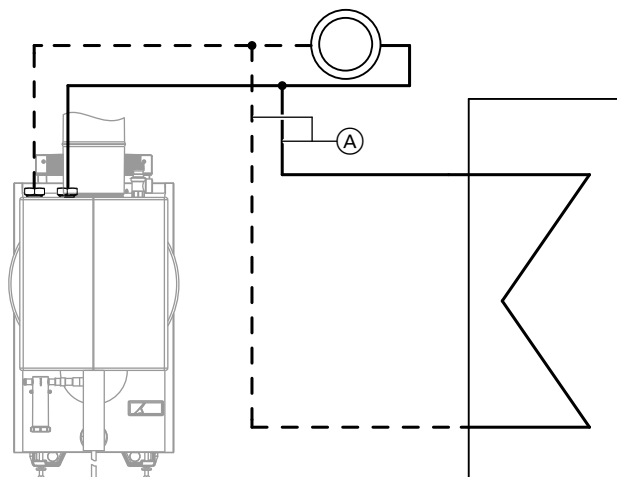
During the installation, align pressure gauge (D) so that it is clearly visible.

Flow and return

Note

The flow and return pipes with the heat exchanger connection are fitted to the boiler.

Connect all consumers so that the heat exchanger will receive a heating water flow in any operating condition.



Connections on the heating water side (cont.)

Connect the heating circuits and DHW cylinder to the common flow and return on the BF/BR distributor. Make connection (A) on site.

Making the safety connections

Permiss. operating pressure: 3 bar
(0.3 MPa)
Test pressure: 4 bar
(0.4 MPa)

Minimum cross-sections

- Safety valve inlet connection
67.6 to 107.3 kW: DN 15 (R ½)
- Safety valve discharge pipe
67.6 to 107.3 kW: DN 20 (R ¾)
- Pipe to the expansion vessel
67.6 kW: DN 12 (R ½)
85.8 to 107.3 kW: DN 20 (R ¾)

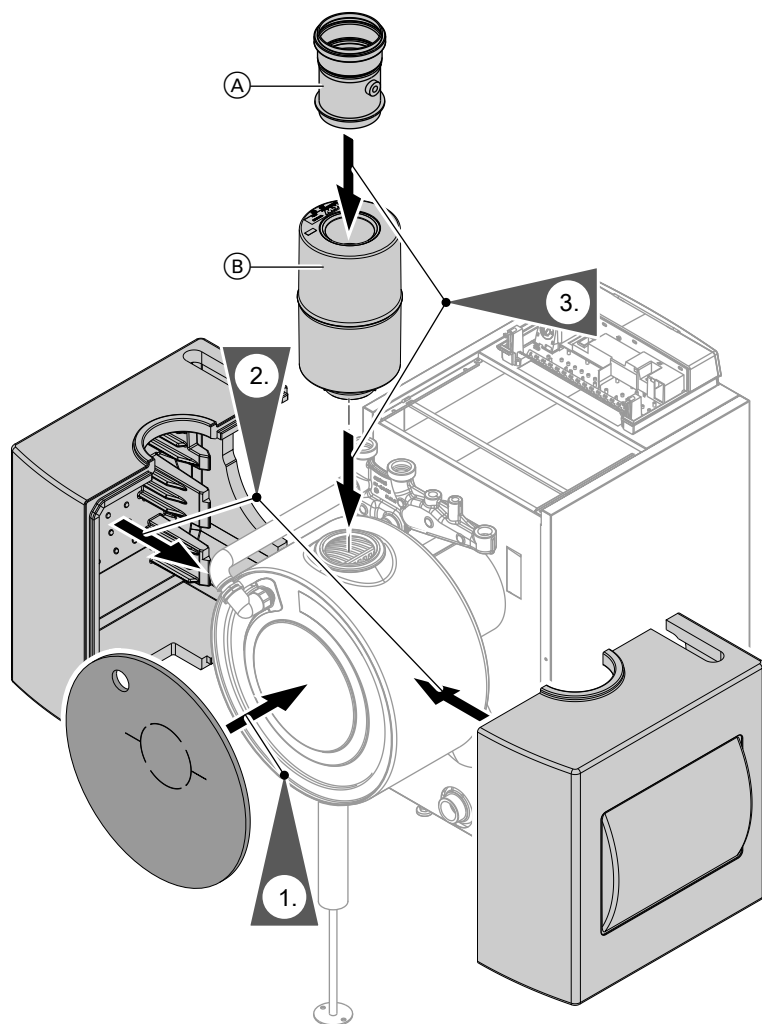
Low water indicator

Tests have verified that the low water indicator specified by EN 12828 is not required.

Note

Equip boilers with a safety valve that is type-tested according to TRD 721 [or local regulations] and is identified in accordance with the relevant system.

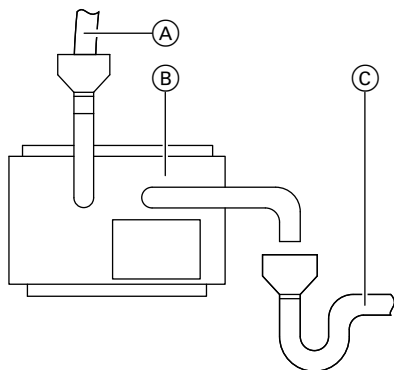
Fitting the thermal insulation to the heat exchanger



(A) Boiler flue connection

(B) Silencer (accessories)

Condensate connection



- (A) Supply from the boiler
- (B) Neutralising system or active charcoal filter
- (C) Drain to the public sewage system

Connect the condensate pipe to the public sewage system by the shortest route, with a constant fall and a pipe vent. Install a neutralising system if required.

Note

DWA-A 251 permits boiler use without a neutralising system when operating with low sulphur fuel oil DIN 51605-EL-1 (sulphur content ≤ 50 mg/kg).

Making the electrical connections



Please note

Damaged capillary tubes will result in faulty sensor function.
Never kink the capillary tubes.

Opening and closing the control unit and connections to the control unit:



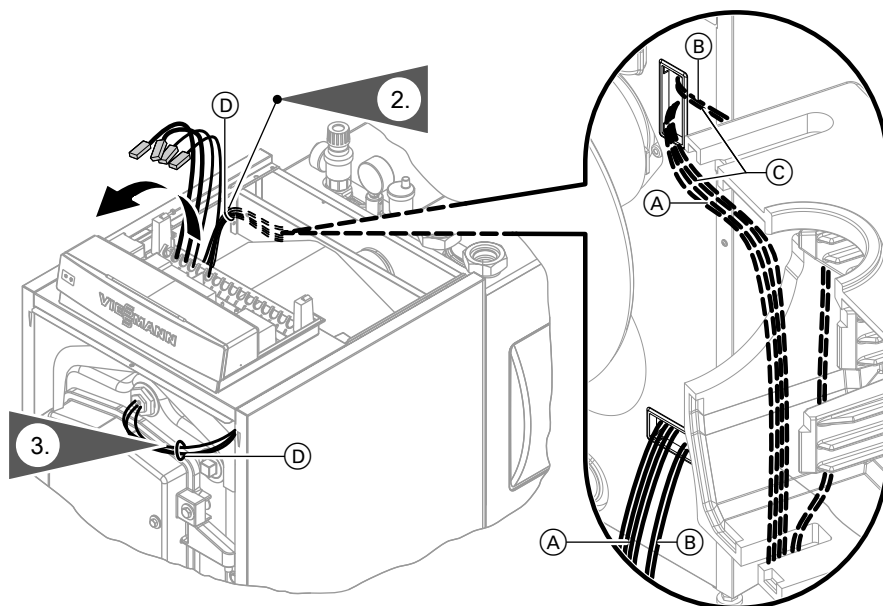
Boiler control unit installation instructions



Please note

Cables/leads can be damaged by hot components.
Cables/leads must not come into contact with any hot components once installation work is complete.

Making the electrical connections (cont.)



Ⓒ Alternative cable routing to the upper aperture through the heat exchanger thermal insulation

- Route all LV leads Ⓐ and 230 V cables Ⓑ to the control unit through the rear **lower aperture** in the back panel. If necessary, alternative cable routing path Ⓒ to the upper aperture can be chosen.
- Bundle and route 230 V cables and LV leads **separately**.
- **Secure** all 230 V cables and the LV leads with the cable ties Ⓓ supplied.

Mounting the top and the front panels

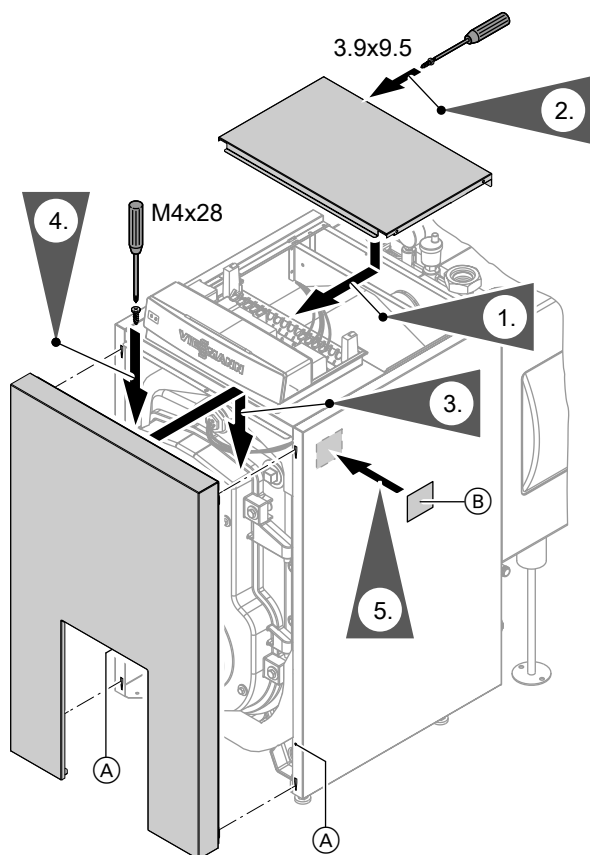
Mount the burner prior to fitting the front panel:



Burner installation instructions

Use cable ties (snap hooks) to secure the burner cable at hole (A) on the **inside** of the side panel; which side panel depends on whether the burner is mounted on the right or left.

Mounting the top and the front panels (cont.)



Ⓐ Fixing holes for burner cable

Ⓑ Type plate

Commissioning and adjustment



Boiler service instructions
Burner service instructions
Boiler control unit service instructions





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