

Installation instructions

for contractors

VISSMANN

Sub-mounting kit

Heating circuit distributor for Vitodens 200-W to 35 kW,
Vitodens 300-W and Vitopend 200-W, type WH2B

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.

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.

Installation conditions

An installation aid for mounting on finished walls must be fitted to install the sub-mounting kit.



Installation instructions, installation aid.

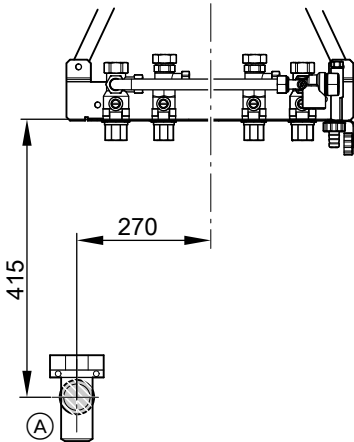
Installation conditions (cont.)

Note

A DHW cylinder cannot be connected below the boiler when a sub-mounting kit is used.

Preparing the installation

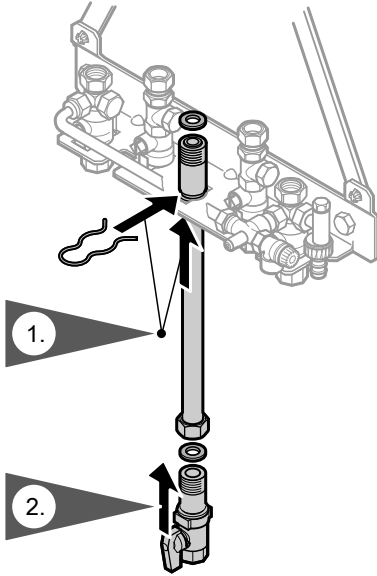
Drain outlet arrangement



Arrange drain outlet (A) for condensate (if installed) in accordance with the diagram.

Preparing the installation (cont.)

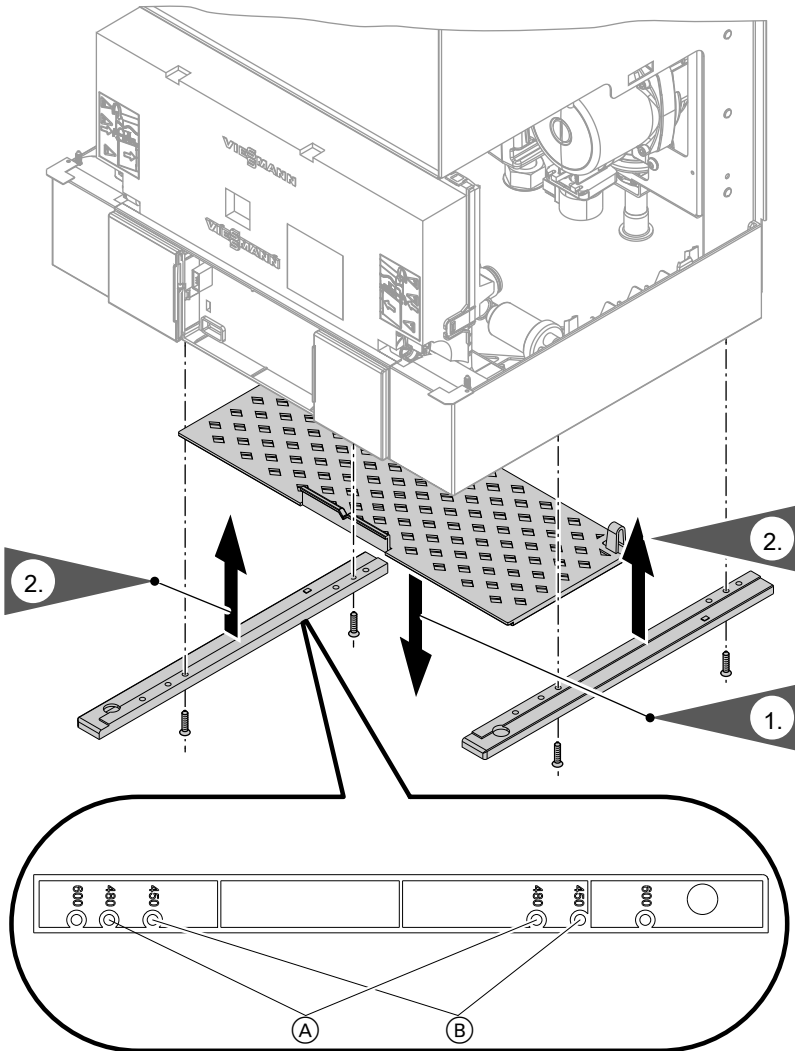
Attaching gas shut-off valve and extension



1. Secure the gas connection extension to the installation aid panel using the retaining clip.
2. Secure the gas shut-off valve with gasket to the gas connection extension.

Preparing the installation (cont.)

Attaching the mounting brackets to the bottom of the boiler

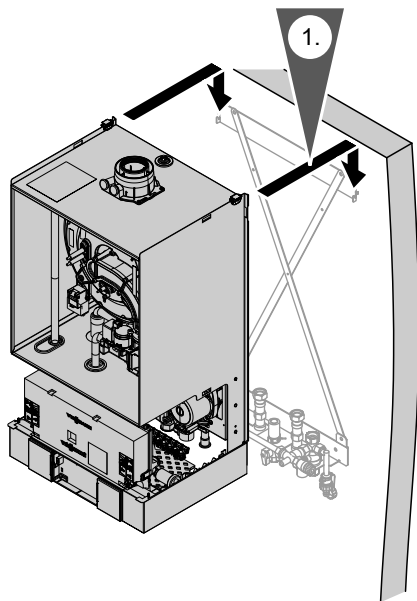


(A) Boiler width 480 mm

(B) Boiler width 450 mm

Preparing the installation (cont.)

Fitting the boiler



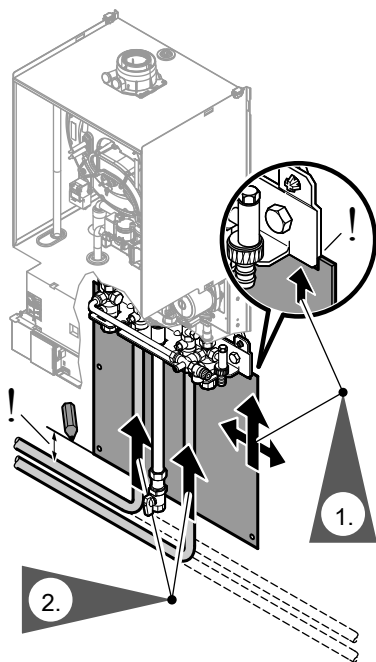
Fit the boiler to the installation aid.



Installation instructions for boiler and installation aid.

Preparing the installation (cont.)

Connecting DHW cylinders adjacent to the boiler



1. Note

Route the connection lines to the DHW cylinder below the sub-mounting kit. Using the drilling template supplied, prepare the layout of the connection lines.

Align the drilling template below the installation aid panel.

2. Connect the on-site connection lines to the boiler.

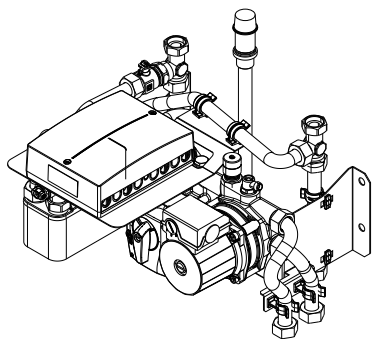


Boiler installation instructions

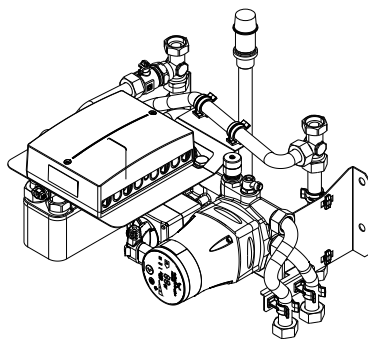
Pump versions

The sub-mounting kit is supplied, subject to order, either with a stepped circulation pump or with a high efficiency DC pump.

Pump versions (cont.)



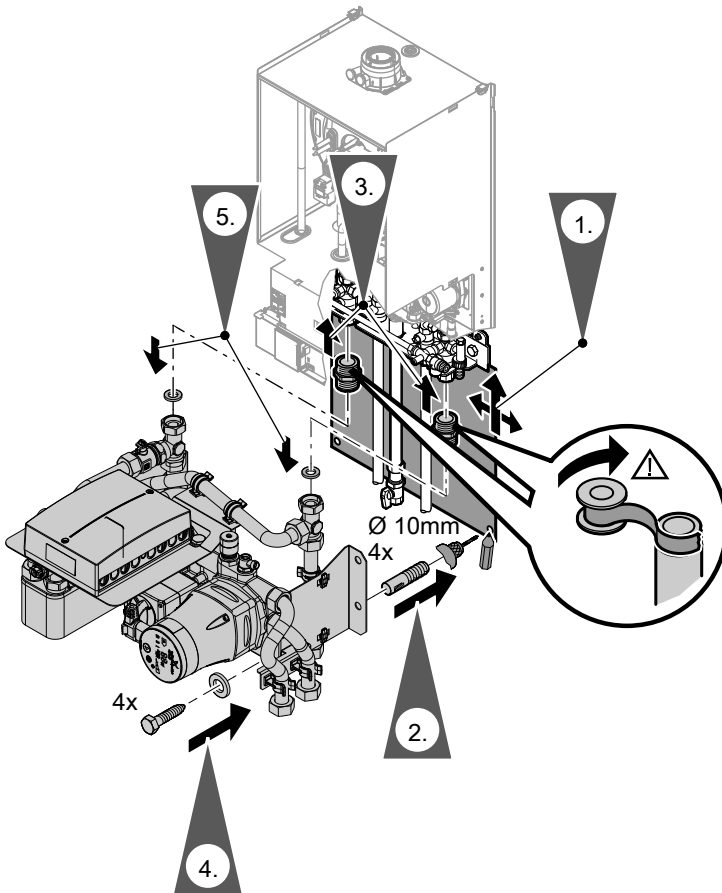
Sub-mounting kit with stepped circulation pump



Sub-mounting kit with high efficiency DC pump

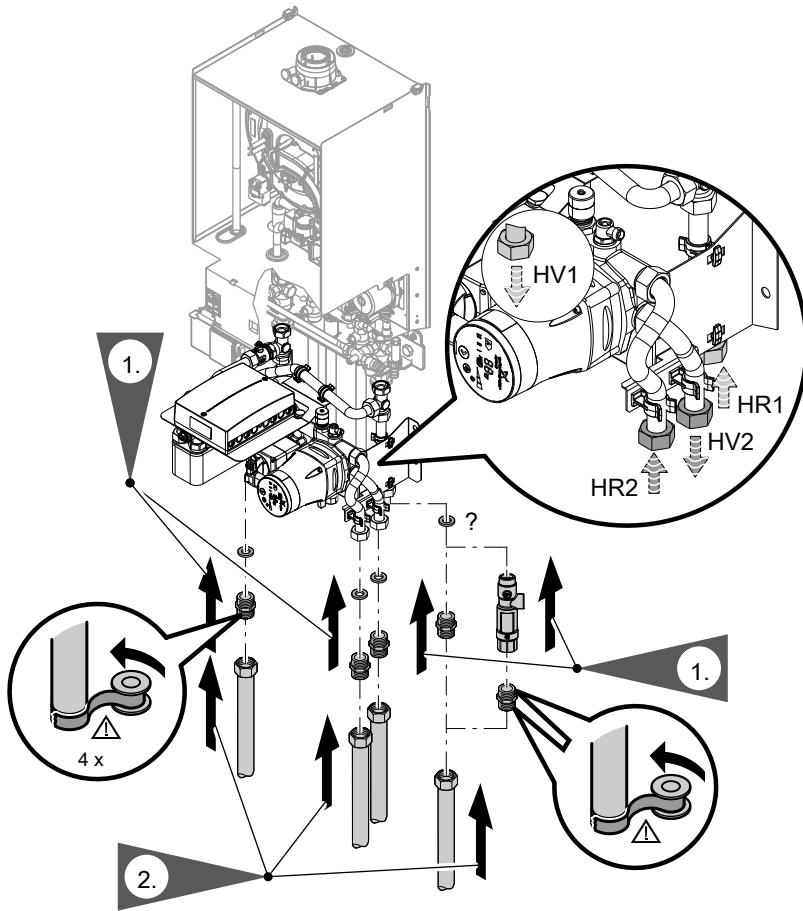
The following installation steps show the high efficiency DC pump version.

Fitting the sub-mounting kit



1. Align the drilling template below the installation aid panel.
2. Drill $\varnothing 10\text{ mm}$ holes and insert rawl plugs.
3. Seal in the twin nipples $R \frac{3}{4}$ at the shut-off valves of the heating water flow and return.
4. Secure the sub-mounting kit to the wall with the screws and washers supplied.
5. Insert the flat packing and connect the heating water flow and return lines.

Connecting the heating circuits



HR1 Heating water return, heating circuit without mixer G $\frac{3}{4}$

HR2 Heating water return, heating circuit with mixer G $\frac{3}{4}$

HV1 Heating water flow, heating circuit without mixer G $\frac{3}{4}$

HV2 Heating water flow, heating circuit with mixer G $\frac{3}{4}$



Connecting the heating circuits (cont.)

1. Secure the twin nipples with flat gaskets at the connections of the sub-mounting kit.
If available:
Fit a flow indicator (accessory) with flat gasket in place of the twin nipple at the heating water return of the heating circuit without mixer.
2. Connect the heating circuits to the connection pipes of the sub-mounting kit.
So that the casing can be fitted later, do not modify the position of the heating circuit connections.

Information regarding the heating circuit with mixer

On site, install a drain & fill valve in flow of the heating circuit with mixer.

Required during commissioning for filling and venting the heating circuit.

The diaphragm expansion vessel integrated into the boiler can also be used for the heating circuit with mixer.

Check whether the size of the integral diaphragm expansion vessel is adequate for the connected heating circuits.

Information regarding the underfloor heating circuit

Fit the maximum temperature limiter to the heating flow at least 1 m downstream of the circulation pump.

Connecting heating circuits with permeable pipework

Seal off the volume balancing line between both heating circuits when connecting heating systems with permeable pipework (DIN 4726).

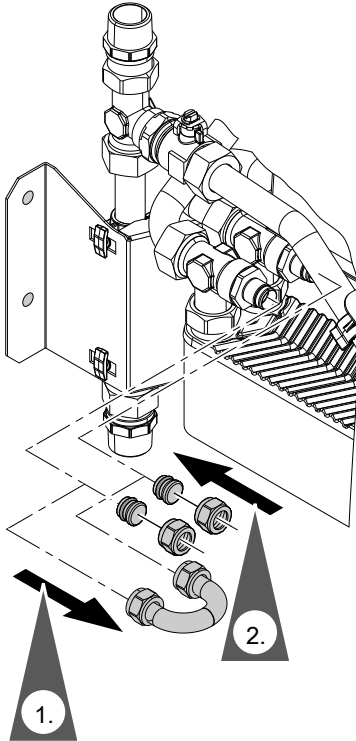
Note

If the volume balancing line has been removed, install a separate expansion vessel in the regulated heating circuit.

Connecting the heating circuits (cont.)

Removing the volume balancing line

1. Remove the union nuts and the balancing line with the locking rings.
2. Seal the connections with the plugs and union nuts supplied. Lubricate the O-rings with the valve grease supplied.



Electrical connections

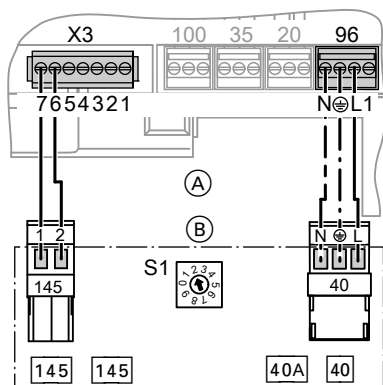
Connecting the mixer control to the boiler control unit

Connection to the boiler control unit:



Boiler installation instructions.

Electrical connections (cont.)




(A) Wall mounted gas boiler control unit

(B) Mixer control sub-mounting kit

1. Connect the cable with plug **145** to terminals 6 and 7 at plug X3 of the control unit or to the KM BUS distributor.


2. Connect the power cable with plug **40** to plug **96** of the control unit.

Connecting the maximum temperature limiter or controller to the mixer control

 Separate installation instructions

Commissioning and adjustment

Filling and commissioning the heating system

 Boiler service instructions.

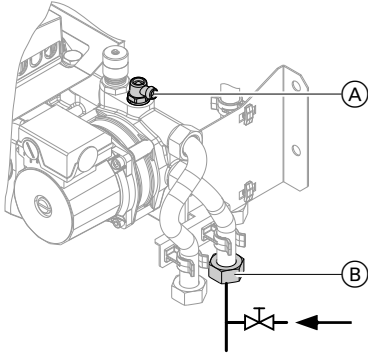


Danger

Escaping gas leads to a risk of explosion.
Check all gas connections for tightness.

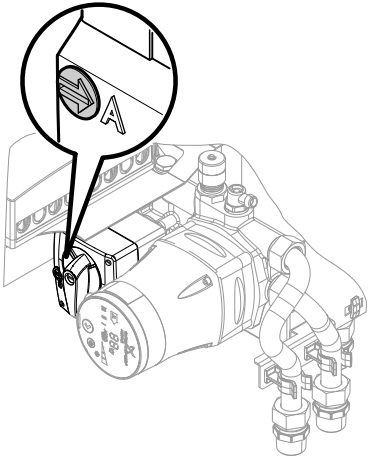
Commissioning and adjustment (cont.)

Venting the heating circuit with mixer



1. Connect a hose to the drain valve (A) and route it into a drain connection.
2. Connect the fill hose to the on-site drain & fill valve (B).
3. Flush the heating circuit with mains pressure until no more air noise can be heard.

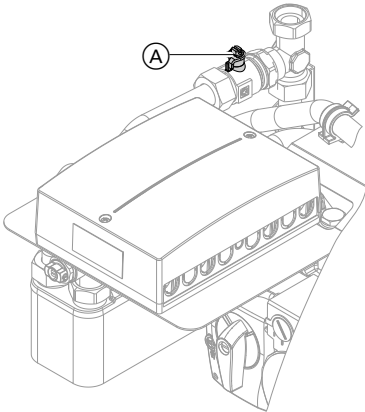
Position of switch on the mixer motor



The rotary selector at the mixer servomotor must be set to automatic (arrow towards "A"). In case of mixer control faults, turn the rotary selector to "manual", and manually adjust the mixer (emergency mode).

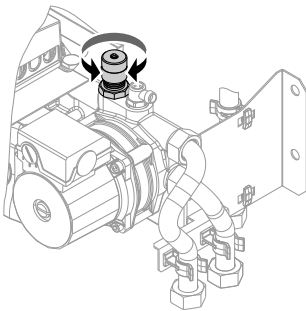
Commissioning and adjustment (cont.)

Adjusting the flow rate



1. Regulate the flow rate on ball valve (A).
2. Check the flow rate on the flow indicator (accessory, if installed).

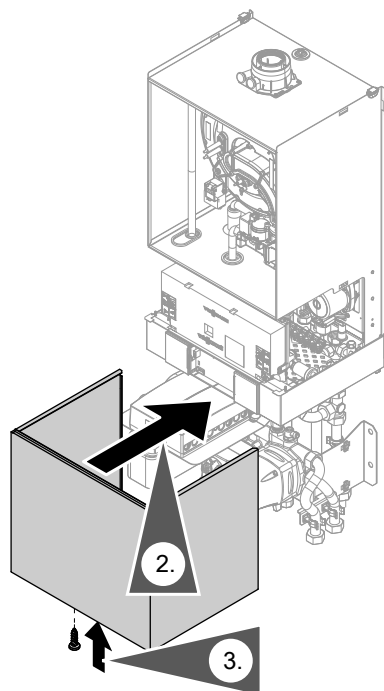
Adjusting the bypass



A bypass is integrated into the heating circuit with mixer. In the delivered condition, the bypass is closed. If required, open the bypass to minimise temperature peaks (by turning it anti-clockwise).

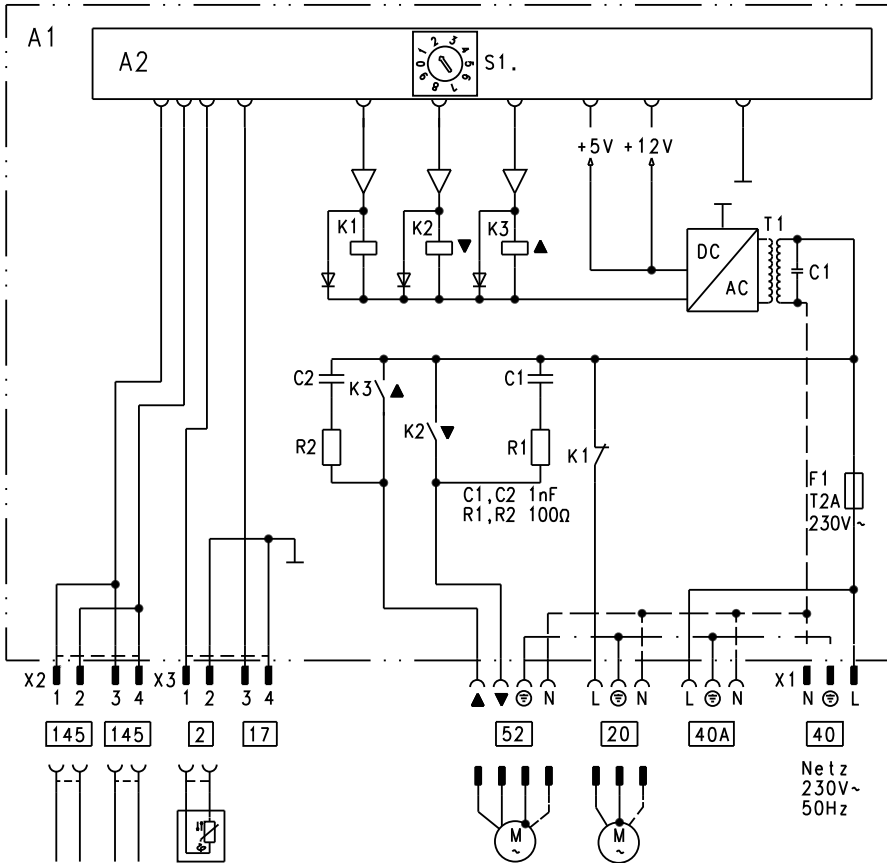
Commissioning and adjustment (cont.)

Fitting the casing



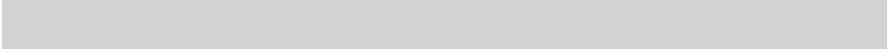
1. Push the casing from the front into the mounting brackets.
2. Secure the casing at the bottom with self-tapping screw B 3.9 x 13.

Connection and wiring diagram



- 2 Flow temperature sensor
- 17 No function
- 20 Heating circuit pump
- 40 Power supply
- 40A Power outlet
- 52 Mixer motor

- 145 KM BUS
- A1 Main PCB
- A2 PCB
- S1 DIP switch (settings in the delivered condition)
- X ... Electrical interfaces







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