

Installation instructions

for contractors

VIESSMANN

Vitotrans 300

Flue gas/water heat exchanger
for Vitoplex 200, Vitoplex 300 and Vitorond 200
with rated heating output 80 to 560 kW



VITOTRANS 300



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.

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.
- Gas Safety (Installation & Use) Regulations
 - the appropriate Building Regulation either the Building regulations, the Building Regulation (Scotland), Building Regulations (Northern Ireland),
 - the Water Fittings Regulation or Water Bylaws in Scotland,
 - the current I.E.E. Wiring Regulations.

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

Flue gas/water heat exchanger in conjunction with Vitoplex 200, Vitoplex 300 and Vitorond 200 as a condensing unit for sealed heating systems to DIN EN 12828. Permissible operating pressure 4 or 6 bar.

Identification of the condensing units in conjunction with Vitotrans 300

Condensing unit	Product ID
Vitoplex 200 with Vitotrans 300	CE-0085 AS 0203
Vitoplex 300 with Vitotrans 300	CE-0085 AS 0204
Vitorond 200 with Vitotrans 300	CE-0085 AU 0327

Mounting the heat exchanger

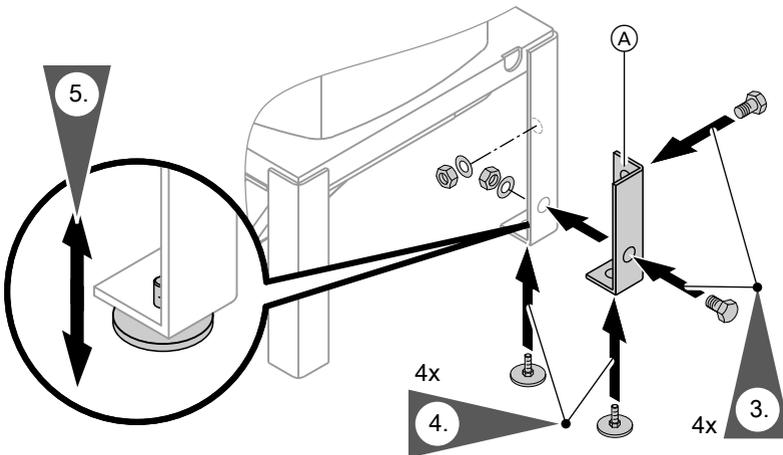
Note

Observe minimum clearance from the boiler (see boiler installation instructions).

Note

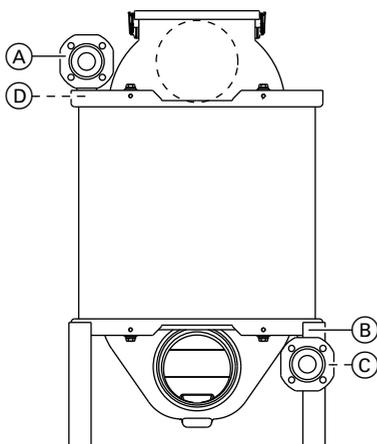
We recommend mounting the boiler and heat exchanger on a base of at least 100 mm in height for fitting the neutralising system and easier cleaning of the boiler room.

1. Release fixing screws and lift heat exchanger off the pallet.
2. Remove the bag containing the type plate from the heat exchanger body, and keep safe.
3. **Only for Vitoplex 300, type TX3, with 285 kW:**
Fit the base rail extensions secured to the heat exchanger body to the base rails.
4. Screw adjustable feet (supplied in the bag with the type plate) from below into the base rails.
5. Align heat exchanger under the boiler so that the flue outlet for the boiler and the heat exchanger are at the same height and located centrally.



- (A) Base rail extension; installation **only** required with Vitoplex 300, type TX3, with 285 kW

Connecting on the heating water side



- (A) Heating water outlet
- (B) Drain (on bottom panel)
- (C) Heating water inlet
- (D) Fem. connection for additional control equipment

1. Thoroughly flush out the heating system (especially before connecting the heat exchanger to an existing heating system).

2. Make all necessary connections.

Note

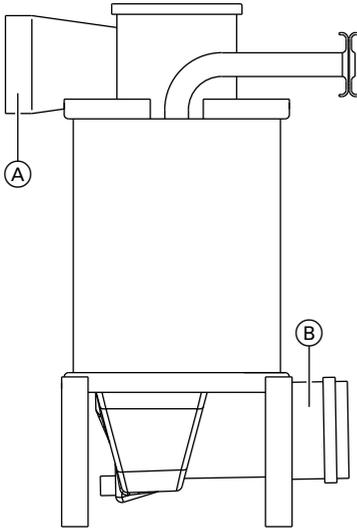
Ensure that no lateral or rotary forces are acting upon the connections.

Note

Damage due to excessively high pressure is excluded from our warranty.

3. Seal off those connections that are not required.
4. Remove the bag containing the type plate from the heat exchanger body, and keep safe.

Connecting on the flue gas side



- Ⓐ Flue inlet
- Ⓑ Flue outlet

1. Connect the boiler flue outlet and the heat exchanger flue outlet with a connection collar (accessory).
2. Keep the connection piece as short as possible and route it with an incline towards the chimney (min. 3°). Avoid sharp bends.
3. Seal in the flue pipe.

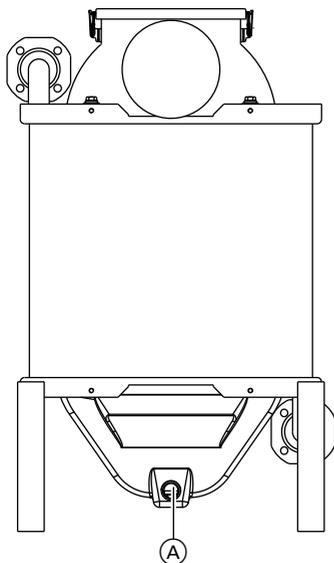


Danger

Flue gases must not enter interior rooms.

Flue joints must be gas-tight (up to 1000 Pa).

Connecting on the condensate side



Ⓐ Condensate drain

The heat exchanger is operated with a separate neutralising system (accessory).



Neutralising system installation and operating instructions

1. Position the neutralising system next to the heat exchanger.
2. Trim the plastic hose supplied to the required size and connect it as a U-bend or with a siphon to the heat exchanger condensate drain.

Note

It must be connected either as a U-bend or with a siphon to prevent flue gas from escaping.

3. Connect the neutralising system to the plastic hose.
4. Connect the neutralising system to the drainage system.

Note

We recommend using a siphon for this connection.

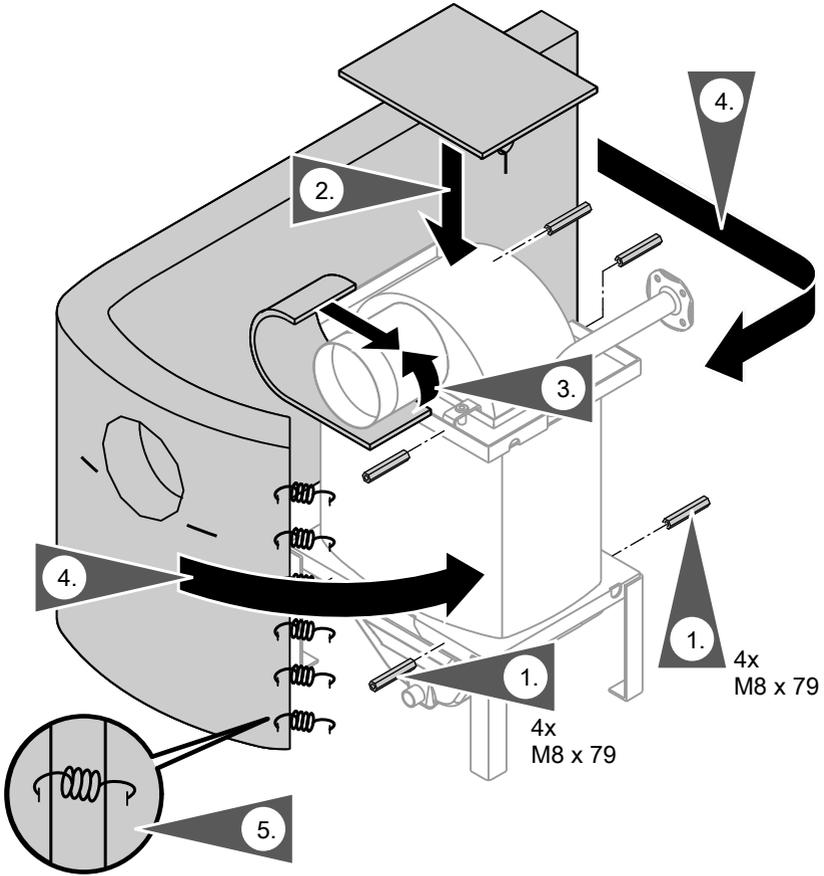
5. Fill the neutralising container with neutralising agent.

Fitting the thermal insulation

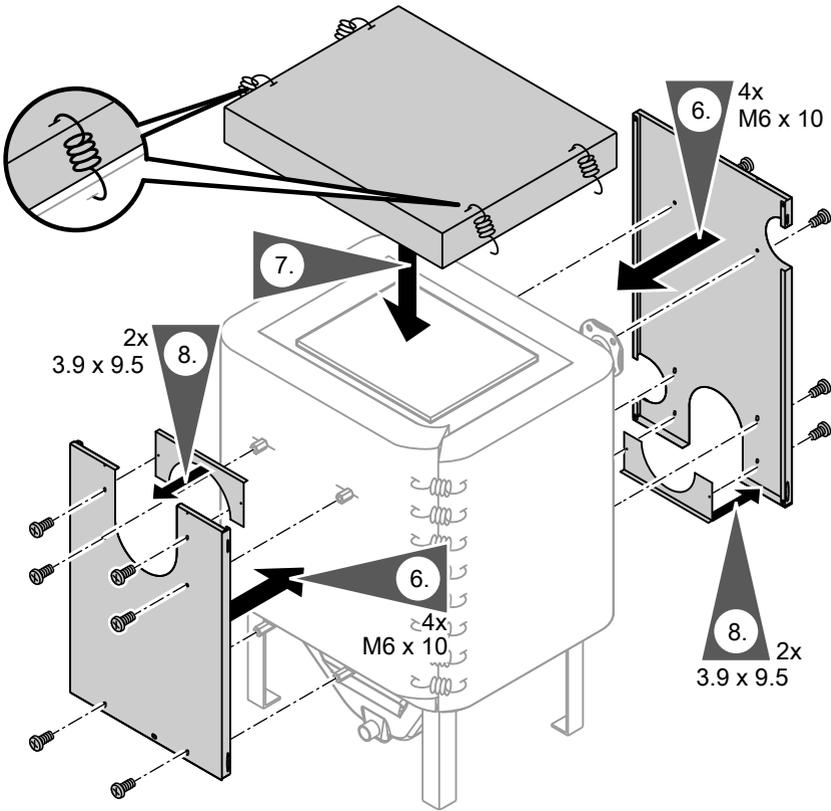
Note

All components required to fit the thermal insulation can be found in the thermal insulation pack.

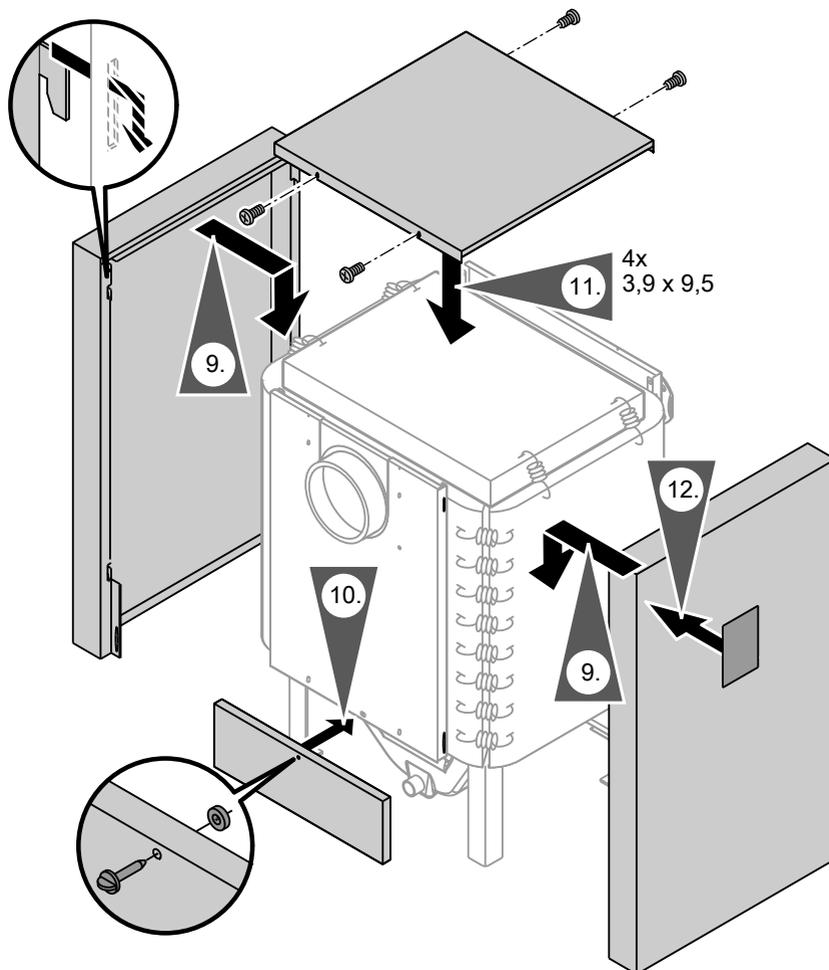
Fitting the thermal insulation (cont.)



Fitting the thermal insulation (cont.)



Fitting the thermal insulation (cont.)



Notes on commissioning



For commissioning, see the "Service instructions"

Notes on commissioning (cont.)



Danger

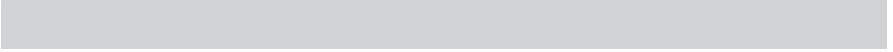
For safe operation, a minimum operating pressure of 0.5 bar is essential.

For this, a minimum pressure switch can be used.

Specification

for boilers with a rated heating output	from kW to kW	80 125	130 200	225 350	345 560
Heat exchanger connections					
Heating water inlet and outlet	DN	40	50		65
Drain	R (fem. thread)		½		
Fem. connection for additional control equipment	R (fem. thread)		½		
Condensate drain	R (male thread)		½		
Permissible operating pressure	bar	4			6
Test pressure	bar	6			9
Flue pipe, internal diameter,					
top	Ø mm	181	201		251
bottom	Ø mm	151	201		251
Resistance on flue gas side	Pa	65	85	100	105
	mbar	0.65	0.85	1.00	1.05





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