

Installation instructions

Non-return valve for ecoTEC/5, ecoTEC/7

Air/flue system

Publisher/manufacturer

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Öffnungszeiten: Mo.-Fr. 8:00-17:00 Uhr

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Über 15 Jahre Erfahrung



Markenhersteller



1 Safety

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1.1 Action-related warnings

Classification of action-related warnings

The action-related warnings are classified in accordance with the severity of the possible danger using the following warning signs and signal words:

Warning symbols and signal words



Danger!

Imminent danger to life or risk of severe personal injury



Danger!

Risk of death from electric shock



Warning.

Risk of minor personal injury



Caution.

Risk of material or environmental damage

1.2 Intended use

There is a risk of injury or death to the user or others, or of damage to the product and other property in the event of improper use or use for which it is not intended.

The return check valve is intended to prevent flue gas from a combustion location from flowing back and from escaping via another combustion location.

The return check valve must only be fitted into the following products.

Applicability: Germany

Approval category: II_{2ELL3P}. Liquid gas operation is not permitted for multiple-flue configuration.

Approved gas type for multiple-flue configuration: G20 [natural gas E], G25 [natural gas LL]

Unit type

VC 146/5-5





Unit type
VC 206/5-5
VC 266/5-5
VCW 206/5-5
VCW 266/5-5
VCI 206/5-5
VCI 266/5-5
VCC 206/4-5 150
VSC 146/4-5 90
VSC 146/4-5 150
VSC 146/4-5 200
VSC 206/4-5 90
VSC 206/4-5 150
VSC 206/4-5 200
VSC 266/4-5 150
VSC 266/4-5 200
VSC S 146/4-5 150
VSC S 146/4-5 190
VSC S 206/4-5 150
VSC S 206/4-5 190

Safety 1



Unit type
VC 146/7-2 (E-DE) ecoTEC pure
VCW 206/7-2 (E-DE) ecoTEC pure

Applicability: Austria

Approval category: II_{2H3P}. Liquid gas operation is not permitted for multiple use.

Approved type of gas for multiple use:
G20 [natural gas H]

Unit type
VC AT 126/5-5
VC AT 196/5-5
VC AT 246/5-5
VCW AT 176/5-5
VCW AT 196/5-5
VCW AT 246/5-5
VCI AT 196/5-5
VCI AT 246/5-5
VSC 146/4-5 90



1 Safety

Unit type
VSC 206/4-5 90
VSC 206/4-5 150
VSC S 146/4-5 190

Applicability: Belgium

Approval category: I_{2E(S)}.

Approved type of gas for multiple use:
G20 [natural gas H], G25 [natural gas L]

Unit type
VC BE 126/5-5
VC BE 186/5-3
VC BE 206/5-5
VC BE 256/5-3
VC BE 256/5-3 A
VCW BE 226/5-3
VCW BE 226/5-3 A
VCW BE 286/5-3
VCW BE 286/5-3 A

Unit type
VCW BE 296/5-5
VCC 206/4-5 150
VCC 266/4-5 150
VSC D 206/4-5 190
VC 256/7-2 (E-BE) ecoTEC pure
VCW 226/7-2 (E-BE) ecoTEC pure
VCW 286/7-2 (E-BE) ecoTEC pure
VC 186/7-2 (E-BE) ecoTEC pure

Applicability: Switzerland

Approval category: II_{2H3P}. Liquid gas operation is not permitted for multiple use.

Approved type of gas for multiple use:
G20 [natural gas H]

Unit type
VC CH 146/5-5
VC CH 206/5-5
VC CH 266/5-5





Unit type
VCW CH 206/5-5
VCW CH 266/5-5

Intended use includes the following:

- observance of accompanying operating, installation and servicing instructions for the product and any other system components
- compliance with all inspection and maintenance conditions listed in the instructions.

Any other use that is not specified in these instructions, or use beyond that specified in this document shall be considered improper use. Any direct use in industrial or commercial processes is also deemed to be improper.

Caution.

Improper use of any kind is prohibited.

1.3 General safety information

1.3.1 Risk caused by inadequate qualifications

The following work must only be carried out by competent persons who are sufficiently qualified to do so:

- Set-up
- Dismantling
- Installation
- Start-up
- Inspection and maintenance
- Repair
- Decommissioning
- ▶ Proceed in accordance with current technology.

1.4 Regulations (directives, laws, standards)

- ▶ Observe the national regulations, standards, directives, ordinances and laws.

2 Notes on the documentation

2 Notes on the documentation

2.1 Observing other applicable documents

- You must observe all the operating and installation instructions included with the system components.

2.2 Storing documents

- Pass these instructions and all other applicable documents on to the system operator.

2.3 Validity of the instructions

These instructions apply only to:

- Non-return valve: 0020274027

3 Installation

3.1 Installing the non-return valve

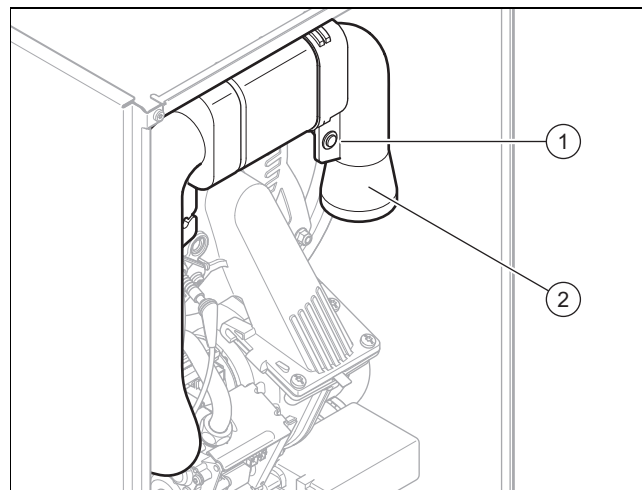


Danger! **Risk of poisoning**

If the front casing is removed and the other boilers in the multi-occupancy are in operation, poisonous flue gas may escape from the unit.

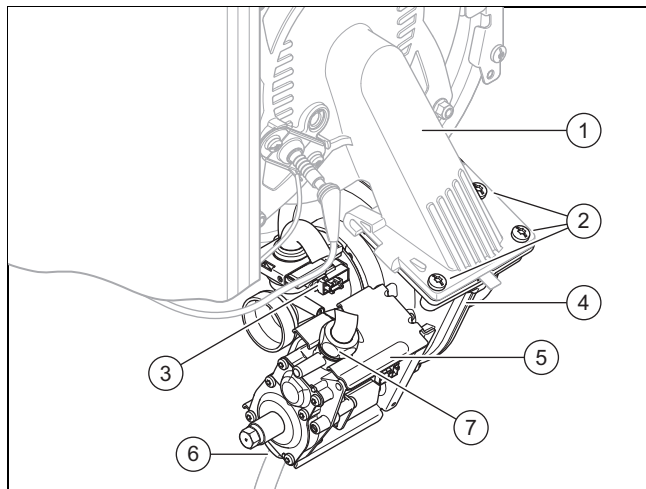
- Before installing the return check valve, temporarily decommission the other boilers in the multi-occupancy.

1. Ensure that the installation room is sufficiently aerated.
2. Close the gas stopcock on the boiler.
3. Isolate the boiler from the power grid.
4. Use suitable means to seal the air/flue connection on the flue system and/or the flue gas interface on the flue.
5. Remove the front casing from the boiler.

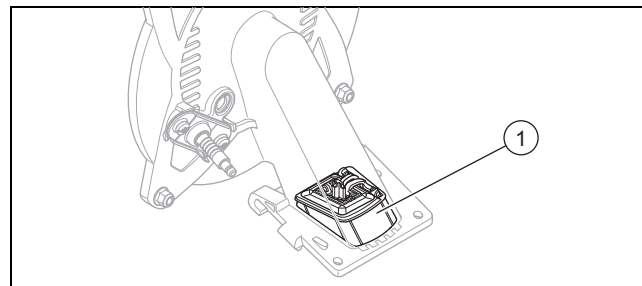


6. Undo the screw (1) and remove the air intake pipe (2).

Installation 3

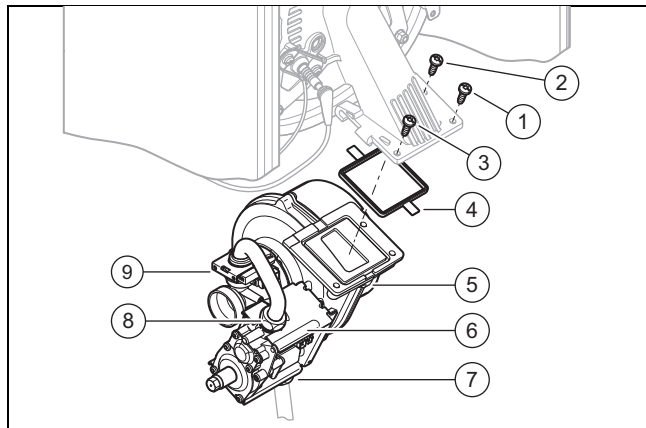


7. Remove the three plugs from the gas valve assembly **(5)**.
8. Remove the plug from the Venturi **(3)** sensor.
9. Remove the plugs from the fan **(4)**.
10. Unscrew the union nut **(6)** from the gas pipe.
11. Unscrew the three screws **(2)** between the mixture pipe **(1)** and the fan flange.
12. Remove the fan **(4)**/Venturi **(3)**/gas valve assembly **(5)** unit from the boiler.
13. Before installing, check that the non-return valve flap can be manually opened and closed.



14. Install the non-return valve **(1)** at the bottom of the mixture pipe.
15. Ensure that the lower non-return valve ends flush with the mixture pipe flange.
16. Check that the installed non-return valve flap can be manually opened and closed.

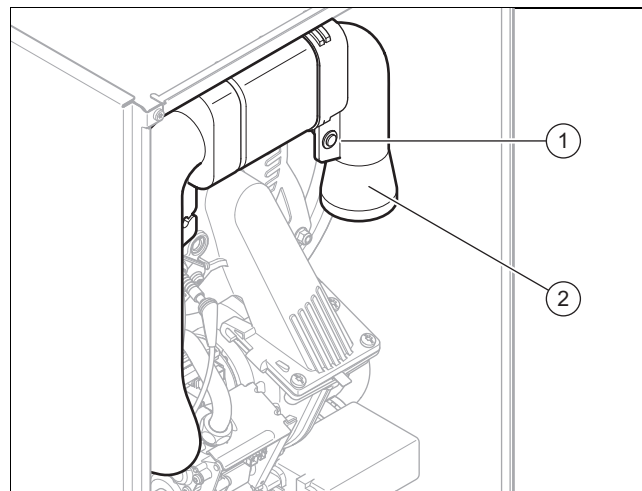
3 Installation



17. Replace the seal **(4)**.
18. Dispose of the removed seal.
19. Install the fan **(5)**, Venturi **(9)** and gas valve assembly **(6)** unit on the mixture pipe.
20. When installing this unit, tighten the three screws between the mixture pipe and the fan flange in the order **(1)**, **(3)**, **(2)**.
 - Torque: 8 Nm
21. Replace the seal in the gas pipe union nut **(7)**.
22. Dispose of the removed seal.
23. Screw the gas pipe tightly onto the gas valve assembly with the union nut **(7)**. When tightening this, push against the union nut **(8)** for the gas connection pipe.

– Torque: 28 Nm

24. Plug the plugs into the fan **(5)**.
25. Plug the plug into the Venturi **(9)** sensor.
26. Plug the three plugs into the gas valve assembly **(6)**.



27. Use the appropriate screw **(1)** to install the air intake pipe **(2)**.
28. Open the gas stopcock on the boiler.
29. Use suitable means to check the tightness of the gas route up to the gas supply/gas valve assembly interface.

4 Start-up

4.1 Setting the boiler for a multiple-flue configuration

1. Open the unit's air/flue connection.
 - Remove the catch from the air/flue connection (→ Page 6).
2. Connect the unit to the air/flue system.
3. Before starting up the unit, check that the entire air/flue system is positioned correctly and is leak-tight.
4. Connect the boiler to the power grid.
5. Switch the boiler on.
6. Set diagnostics code **d.50** to 1500.

4.2 Checking the tightness of the non-return valve

1. Activate the domestic hot water mode due to a domestic hot water demand.
2. Check the union nut on the gas valve assembly and the gas valve assembly/mixture pipe interface for gas tightness.
3. Switch the boiler off.
4. Install the boiler's front casing.



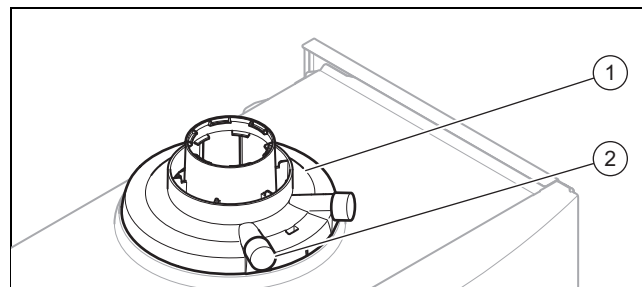
Danger!

Risk of poisoning

If the front casing is removed and the other boilers in the multi-occupancy are in operation, poisonous flue gas may escape from the unit.

- When carrying out a leak-tightness test, make sure that the front casing is installed on the unit.

5. Start up the other boilers in the multiple-flue configuration using the check programme **P.1**.



6. Measure the CO₂ content of the air at the combustion air spigots (2) for the unit connection piece (1).

Result:

Maximum permissible CO₂ content: 0.1 %

5 Maintenance

- ▶ If the maximum permissible CO₂ content is exceeded, check that the non-return valve has been installed correctly. (→ Page 6)
- 7. End the check programme **P.1** for the other boilers in the multiple-flue configuration.
- 8. Stick the supplied stickers to the points described on the stickers.

5 Maintenance

5.1 Maximum useful life

Maintenance part with limited useful life

- ▶ Replace the non-return valve after 15 years.
 - The installation date of the non-return valve is decisive.
- ▶ Enter the replacement date on the enclosed **maintenance part** sticker.

Storing documents

- ▶ Observe the specifications for Storing and handing over documents (→ Page 6).
- ▶ Do not dispose of these instructions.

6 Customer service

Applicability: Austria

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Der flächendeckende Kundendienst für ganz Österreich ist täglich von 0 bis 24 Uhr erreichbar. Vaillant Kundendienst-techniker sind 365 Tage für Sie unterwegs, sonn- und feiertags, österreichweit.

Applicability: Belgium

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2 3349352

Applicability: Switzerland

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Schweiz, Svizzera, Suisse

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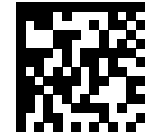


Über 15 Jahre Erfahrung



Markenhersteller

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