

Installation Instructions

for use by heating contractor



Neutralization Unit

Part No. 7134231 Vitodens 100, 200, 222-F and Vitocrossal 300

Part No. 7134232 Vitodens 200 and Vitocrossal 300

For use with: Boilers listed below

Safety and Installation Requirements

Please ensure that these instructions are read and understood before starting any service work. Failure to comply with these instructions may cause product/property damage, severe personal injury and/or loss of life.

Working on the equipment

The installation, adjustment, service and maintenance of this product must be performed by a licensed professional heating contractor who is qualified and experienced in the installation, service, and maintenance of hot water boilers. There are no user serviceable parts on the boiler, burner or control.

Ensure that main power to the equipment being serviced is off.

Ensure that the main fuel supply valve to the boiler is closed.

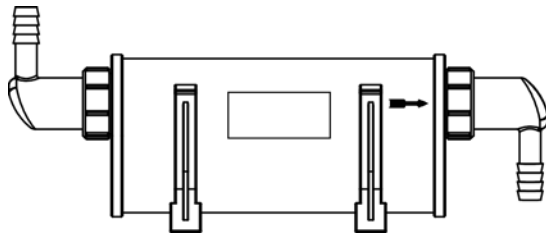
Take precautions to avoid accidental activation of power or fuel during service work.

Do not perform service work on any component part without ensuring safe operation of the heating system. When replacing parts, use original Viessmann or Viessmann approved replacement parts.



Refer to the Installation and Service Instructions applicable to these boilers.

Product Information



Neutralization Unit 7134231 for:

Vitodens 100, WB1A 24, 30

Vitodens 100, WB1B 26, 35

Vitodens 100, B1HA 26, 35, 94, 125

Vitodens 100, B1KA 35, 125

Vitodens 200, WB2-24, 32

Vitodens 200-W, WB2B 19, 26, 35

Vitodens 200-W, B2HA 19, 28, 35

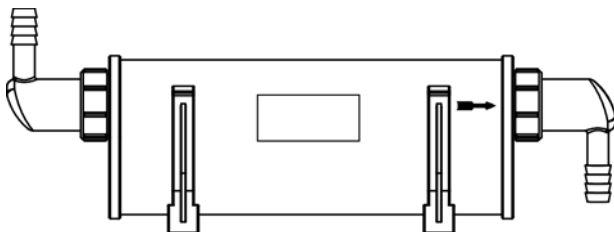
Vitodens 200-W, B2HB 19, 26, 35, 68, 94, 125

Vitodens 222-F, B2TA 19, 35, B2TB 19, 35, 68, 125

Vitocrossal 300, CU3A 26, 35, 94, 125

The Vitodens series is a high efficiency boiler which requires a condensate removal and neutralization system. The boiler condensate is acidic in nature with a low pH value which may have a negative impact on the sewage system.

The Neutrakon® Neutralization Unit is designed to prevent corrosion caused by acidic condensate produced by gas-fired condensing boilers. Neutrakon® neutralizes aggressive condensate and releases non-corrosive, treated condensate with a safe pH value of above 6.5. The neutralized condensate will neither corrode nor damage piping systems.



Neutralization Unit 7134232 for:

Vitodens 200, WB2-44, 60

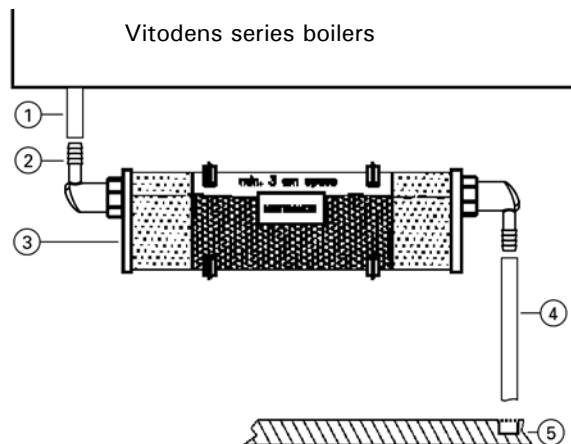
Vitodens 200-W, WB2B 45, 60

Vitodens 200-W, B2HA 45, 60

Vitodens 200-W, B2HB 45, 57, 160, 199

Vitocrossal 300, CU3A 45, 57, 160, 199

Mounting Instructions



Legend

- ① Condensate drain Vitodens boiler (boiler hose)
- ② Connecting 90° plastic elbow.
- ③ Neutrakon® Neutralizer wall- or floor-mounting brackets. Install in horizontal position and ensure connections to inlets and outlets are made properly.
- ④ 3/4 in. tubing with clamps (field supplied)
- ⑤ Drain to sewage system

IMPORTANT

For the protection of private and public sewage systems against acid corrosion, local authorities may demand neutralization of effluents before releasing same into the public sewage system.

1. Mount filter on the wall or floor in horizontal position and at least 4 in. (100 mm) below the condensate drain of the Vitodens condensing boiler.
2. Ensure that the connection between boiler and filter does not allow backflow of condensate into the boiler.
3. To avoid air bubbles, install connection piping with a suitable slope to the drain. If the condensate outlet of the Vitodens boiler is lower than the drain, a condensate pump must be used. The condensate pump must be properly sized for condensate flow and lift requirements. Follow the installation instructions by the condensate pump manufacturer.

CAUTION

Ensure that the condensate line is clear from any blockage and is not exposed to freezing temperatures at any point in time.

CAUTION

Use only plastic tubing for the condensate line. Never use brass, copper or similar materials, as the acidic nature of the condensate may deteriorate such materials.

CAUTION

If the condensate horizontal run is too long, use an additional vent to prevent a vacuum lock.

Technical Data

Neutralizer model	Up to (BTU/hr)	Length in. (mm)	Ø (in. (mm))	ID required tubing (field supplied)	Vitodens model
01/25	125000	12 (300)	5 (125)	3/4 in.	WB1A, 24, 30 WB1B, 26, 35 B1HA 26, 35, 94, 125 B1KA 35, 125 WB2-24, 32 WB2B 19, 26, 35 B2HA 19, 28, 35 B2HB 19, 26, 35, 68, 94, 125 B2TA 19, 35 B2TB 19, 35, 68, 125 CU3A 26, 35, 94, 125
02/50	230000	15 (380)	5 (125)	3/4 in.	WB2-44, 60 WB2B 45, 60 B2HA 45, 60 B2HB 45, 57, 160, 199 CU3A 45, 57, 160, 199

Service Information

To ensure proper operation, the Neutrakon® Neutralization Unit must be serviced once a year.

Check granulate level

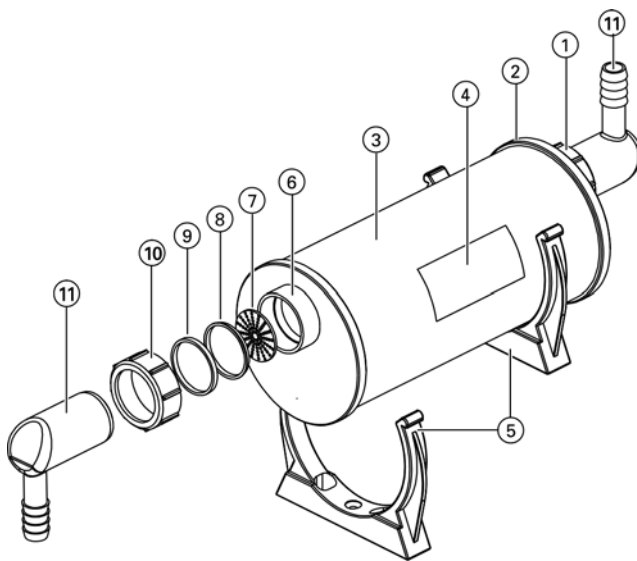
If the level of Neutrakon® granulate has dropped below the minimum mark (red label), refill filter promptly. The original fill will last for approximately one year.

Note: After a period of boiler operation it is quite normal to observe brown mud inside the neutralization unit and inside the condensate water pipe. Rinse unit once a year thoroughly with regular city water pressure. If necessary, refill up to the maximum level.

Check pH value with pH indicator strip (field supplied).

Values below pH value 6.5 indicate an acid, condensate is highly corrosive. Filter must be refilled with new granulate. For exact pH measurement, use an electronic pH meter.

Refilling Filter



Legend

- ① Screwed pipe joint Ø DN40 (40 mm) for 90° elbow
- ② Plexiglass filter housing
- ③ Neutrakon® granulate
- ④ Maximum and minimum granulate level marks
- ⑤ Elastic mounting bracket
- ⑥ Connection thread
- ⑦ Black refill screen (2x for inlet/outlet)
- ⑧ Conical sealing ring (2x for inlet/outlet)
- ⑨ Washer bushing (2x for inlet/outlet)
- ⑩ Screw cap (2x for inlet/outlet)
- ⑪ Connecting 90° plastic elbow

1. Unscrew piping connection and remove filter from elastic mounting brackets. Remove black refill screen from inlet and outlet connections.
2. Flush filter sludge with a strong water jet and loosen clotty granulate with wooden stick (such as handle of a hammer). Take care not to break Plexiglass housing. Clotty and/or decolored granulate does not affect filter neutralizing capacity.
3. Refill filter with Neutrakon® granulate up to maximum mark (red label). Order granulate for refill or replacement purposes from Viessmann. Please see Viessmann Price List for order information.

IMPORTANT

Do not fill filter housing completely. Leave minimum of 1¼" (30 mm) clearance above Neutrakon® neutralization granulate.

IMPORTANT

Ensure that granulate does not obstruct inlet and/or outlet connections.

4. Reinstall black refill screens, sealing rings and washer bushings. Mount onto elastic mounting brackets. Handscrew to inlet and outlet piping. Ensure that connections are free from leakage.

Granulate Disposal

The granulate is dissolved by the acidic condensate that is permeating the filter. The product of the reaction between acid and granulate is magnesium salt, which is present in natural environment in large quantities.

Neutrakon® granulate is approved for treatment of drinking water by European waterworks authorities. Possible remnants of Neutrakon® granulate can be disposed as regular waste.

Printed on environmentally friendly
(recycled and recyclable) paper.



Order Information

To order a replacement Neutralization Unit or to order neutralization granulate for refill or replacement purposes, see Viessmann Price List for detailed order information.

Technical information subject to change without notice.