

Neutrakon[®] Neutraliser for the prevention of Corrosion from Acidic Condensates of Condensing Gas-Boilers

Operating Instructions No.: 88-400-105E

Ensures the non-corrosive and safe pH Value of over 6.5 as prescribed by Sewage Authority Regulations (German Standard ATV M 251)

Mounting

(See mounting sketch No.: 888-333-124E)

The filter will be wall-mounted or floor-mounted, horizontal, at least 100 mm below the condensate outlet of the condensing boiler.

The connection between boiler and filter must ensure that no condensate-backflow into the boiler can occur. (See mounting-sketch No. 88-333-123E). All connecting piping must be installed with a suitable slope, to avoid air-bubbles.

Operation

The condensate flows through the Neutrakon[®] Granules, neutralizing the acid (over pH 6,50; according to Water Authority ATV-Worksheet 251). The neutralized condensate can neither corrode nor damage the domestic or the public sewer piping.

Function Control

To ensure proper operation, the Neutrakon[®] must be serviced once per year:

1. Check Granule Level! Has the level of Neutrakon[®] - granules been consumed by the acid to below the maximum indicator (red label), the filter must be refilled. The original filling lasts for at least one year.

2. Control the pH-value with pH-Indicator Paper! (Available from Chemist / Manufacturer: E. Merck – Article No. 10962, or equivalent). Values below pH 6.5 indicate an Acid = highly corrosive condensate and the filter must be refilled with fresh granules. For exact pH- measurement an electronic pH-Meter must be used.

Refilling

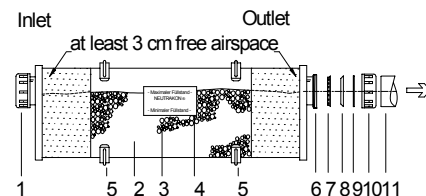
1. Unscrew pipe connection. Pull filter from elastic mounting brackets. Remove the black Refill Screens out of Inlet- and Outlet- Connections.

2. Flush out the Filter-sludge with a strong water-jet. Clotty granules to be loosened with a wooden stick (e.g. Hammer-handle). Take care not to break the Plexiglas housing. Clotty granules do not affect the Filter softening capacity.

3. Refill Filter with Neutrakon[®] granules up to the maximum indicator (red-label).

Do not fill the Filter-Housing completely!

In the horizontal installed Filter an airspace of at least 3 cm must be left free above the Neutrakon[®] granules.



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|---|--|
| 1 screwed pipe joint for 40 mm plastic piping | 7 black refill screens (one each in inlet and outlet) |
| 2 Plexiglas filter housing | 8 conical sealing ring (one each in inlet and outlet) |
| 3 NEUTRAKON Granules | 9 washer bushing (one each in inlet and outlet) |
| 4 MAXIMUM - MINIMUM -Granule level indicator | 10 screw cap (one each on inlet and outlet) |
| 5 elastic mounting brackets | 11 connecting plastic pipe 40 mm diameter (local supply) |
| 6 connection thread | |

Take care that the Granules do not obstruct the Inlet- and Outlet – Connections!

4. Re-install the black Refill-Screens, seal-rings and washer-bushings. Re-mount into elastic mounting brackets. Hand-screw to inlet- and outlet piping.

Check carefully that connections are free from leakage.

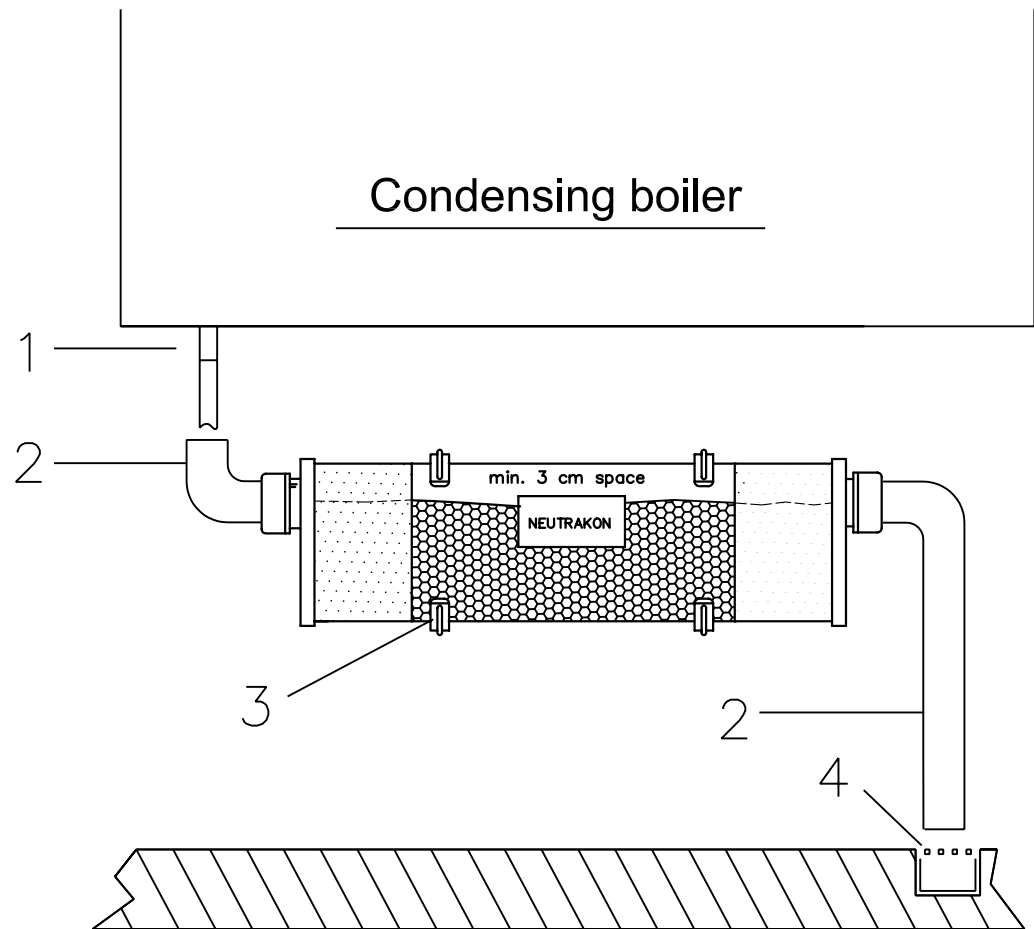
Neutrakon[®] Granule Disposal

The granules are dissolved by the acid condensates (instead of the domestic and public sewer-piping and tubing). The products of the reaction between acids and the granules are Magnesium salts, which are present in the natural environment in very large quantities.

Neutrakon[®] granules are approved for the treatment of Drinking Water by German Water Authorities.

Possible left-overs of Neutrakon[®] Granules can be disposed of, into the normal waste. Neutrakon[®] is approved by German Water Authorities, for the treatment of drinking water.

ATV = German Sewage and Waste Authority e.V.,
Theodor-Heuss-Allee 17, D 53773 Hennef/Sieg Fon:
0049 22 42 872-135



- 1 condensate outlet from Condensing Boiler (local supply)
- 2 Plastic pipe-angle 90° ,40 mm diameter(local supply) - ensure backflow-proof installation!
- 3 NEUTRAKON® Neutralizer Wall- or Floormounting brackets, install horizontal and make sure that inlet and outlet are not covered by NEUTRAKON® -Granules.
- 4 drain to sewer

Typ	up to kW/h	length / mm	Ø mm	plug-in connector	Date: 15.01.2007	Drawing No.: 888-333-124E
01/25	35	300	125	Ø 40mm	Neutrakon® Neutralizer for acid condensates Mounting sketch	
02/50	65	380	125	Ø 40mm		
03/150	150	710	125	Ø 40mm		
04/300	300	1080	125	Ø 40mm		

Mommertz GmbH
 Wasser- und Wärmetechnik
 D 89312 Günzburg / Donau
 Daimlerstraße 8
 Tel.:+ 49 8221 8238 FAX 38616
 www.neutrakon.de