

NEUTROFIL + NEUTROCART filter



PREMIS:

Condensing boilers produce condensation with acidic pH due to heat exchange with the fumes, which can cause damage to the pipes in your home and the environment, and must be discharged and disposed of safely.

NEUTROFIL is a device suitable for small boilers (apartments, small offices), to be mounted on the condensate outlet, which is thus neutralized and discharged without damage.

NEUTROFIL is installed only once, it is only necessary to periodically replace the NEUTROCART cartridge containing the neutralizing substance.

DESCRIPTION:

Condensing boilers achieve high energy efficiency because the heat produced by the exhaust gases is used to preheat the water, instead of being dispersed outside.

This process causes the formation of an acid condensation, which is often simply discharged into the sewer pipes leaving the dwelling. A condensing boiler suitable for a medium-sized house can produce up to 800 liters of acid condensate per year (pH 4).

The environmental regulations of many countries, to limit damage to the sewage system and protect the environment, allow the discharge of only water with a pH between 6.5 and 10.

The correct pH of neutralized water can be periodically checked with litmus paper or with a pH meter. NEUTROFIL is an in-line device containing substances that neutralize the acid condensation of condensation boilers.

The condensate that passes through the device comes into contact with the neutralizing substances. Inside the unit the neutralizing substances are contained in a cartridge (NEUTROCART) that can be periodically extracted and easily replaced by a new cartridge (it is advisable to replace it between 6 and 12 months).

NEUTROFIL must be installed on the condensation drain line, in a lower position compared to the boiler outlet, to facilitate the evacuation of the condensate; the unit does not restrict the flow of condensation.

ADVANTAGES:

- Effectively neutralizes acid condensation
- Cartridge with replaceable neutralizing substance
- Quick and easy assembly
- Easy cleaning and maintenance
- Suitable for all condensation wall boilers
- Does not interfere with boiler operation.

INSTALLATION:

The room in which the system is installed must be protected from frost and must guarantee the protection of the filter by solvent vapors, fuel oil, detergents, all kinds of chemicals, ultraviolet rays and heat sources above 40 ° C.

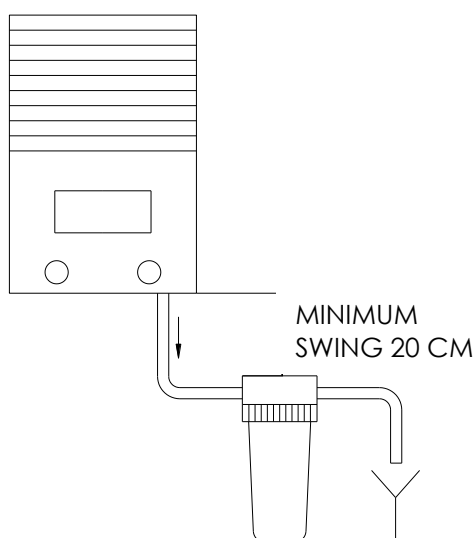
ATTENTION: the drain must be free-standing in funnel, channel, grid or similar in order to make it impossible to avoid siphoning or back pressure.

It is essential to provide a floor drain able to dispose of water even in case of breakdowns or breakages.

Leave at least 25 cm of space under the filter to allow maintenance.



NEUTROFIL it must be installed as shown in the figure in correspondence with the condensate drain pipe:



The filter must have at least 20 cm of leaf against the discharge point of the boiler

For the installation proceed in this way:

- Fix the appropriate bracket to the wall (fixing material not supplied)
- Fix the filter head on the bracket using the appropriate screws (supplied)
- Connect the filter to the condensate drain of the boiler respecting the direction of the water flow (check IN and OUT on the filter head)
- Insert the cartridge inside the glass and connect to the head screwing the ring clockwise.

Before starting the system, check that all the pipes are perfectly connected.

The first liters delivered will take on a white-greyish color, typical of the neutralizing product contained in the cartridge. This effect tends to disappear after the passage of a few liters.

ORDINARY MAINTENANCE:

An accurate routine maintenance and regular scheduled checks guarantee the conservation and good functioning of the plants over time.

Periodic checks:

- Periodically check the pH of the water leaving the neutralizer, which must be between 5.5 and 9.5
- If the value is outside the range of use, replace the cartridge.

Cartridge replacement:

- The replacement must be carried out with the boiler switched off
- Wait a few minutes for the filter body to cool
- Unscrew the ring nut anticlockwise
- Remove the used cartridge from the cup and replace it with a new one
- Screw the ring nut clockwise
- Turn on the boiler
- Check that there are no leaks from the filter.

CONDITION OF EXERCISE:

Maximum pressure

8 bar with neutral pH
3 bar in other conditions
55 °C

Maximum temperature

TECHNICAL DATA:

Non –toxic materials

Head, ring and glass

O-ring

Vent valve

Cartridge

Threads IN/OUT

Dimensions

Pure Polypropylene

VITON

Polypropylene body with VITON O-ring

polystyrene

1"

width 145 mm

height 321 mm

Cartuccia filtrante NEUTROCART

NEUTROCART is made entirely of high quality PN 16 synthetic material, suitable for use in contact with acid condensation.

ADVANTAGES:

- High flow rate
- Low pressure drop
- Quick and easy cartridge replacement
- Permanent control of the neutralizing element (transparent glass)
- Durable and non-breakable neutralizing mass

INSTRUCTIONS FOR INSTALLING FILTERS:

Your filter is shipped ready to be installed, the container and the neutralizing element are included in the package. For installation, follow the water flow and mount the filter in the direction of the arrow printed on the filter head.

Install and remove the filter only if the inlet valve is closed and there is no more pressure. Check the tightness of the joints and remove any foreign bodies.

Complies with the provisions of the CIG regulation 01.08.929.0 and UNI 11071/2003 for condensing boilers up to 35 kW.



CONFORMITY DECLARATION:

We declare that the NEUTROFIL equipment is made of materials suitable for food use, accompanied by an instruction manual on the basis of the manufacturer's instructions, as per D.M. 443 of 21/12/90 Article 3 Paragraph 4 (letters c - g - h).

We also remind you that the special provisions foreseen by the UNI CTI Standard 8065/89, Implementing Law, belong to installers and installers.

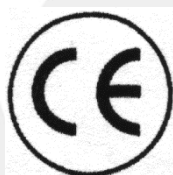
WARRANTY LIMITS:

The warranty is limited to the supply or repair of defective parts or materials recognized as faulty, which must be returned carriage paid to the reseller's premises. The warranty does not cover damage resulting from improper use and normal wear and tear.

The warranty is void if the use, maintenance and safety regulations indicated in this manual are not followed.

Code: _____ Serial: _____

**Equipment compliant with the Ministry of Health circular dated 30.10.89.
Made with materials suitable for food use as per D. M. 443 of 21.12.90.**



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