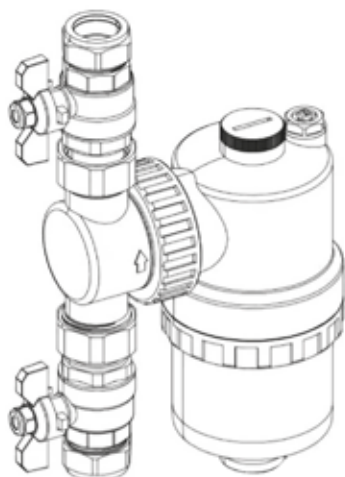




Product No. NNC25001

Magnetic Filter

**For Central Heating Systems
G1" Compression**

Maximum Pressure 10 bar at 120°C

Instruction Manual

Zhejiang Baiyilun Intelligent Control System Co., Ltd. Please retain for future reference.

1 Years guarantee:

Congratulations on your purchase of a Magnetic filter from Zhejiang Baiyilun Intelligent Control System Co., Ltd. We want you to continue getting the best performance from it so this handbook includes information on safety, handling and care.

Please retain this handbook in case you need to refer to any of the information in the future. Your magnetic filter comes with a 12-month guarantee, so should it develop a fault within this period, you should, in the first instance contact the retailer where the item was purchased.

This guarantee specifically excludes losses caused by:

- Misuse or abuse
- Modified or tampered
- Lack of routine maintenance or incorrect maintained
- Accidental damage
- Failure to follow the installation instruction

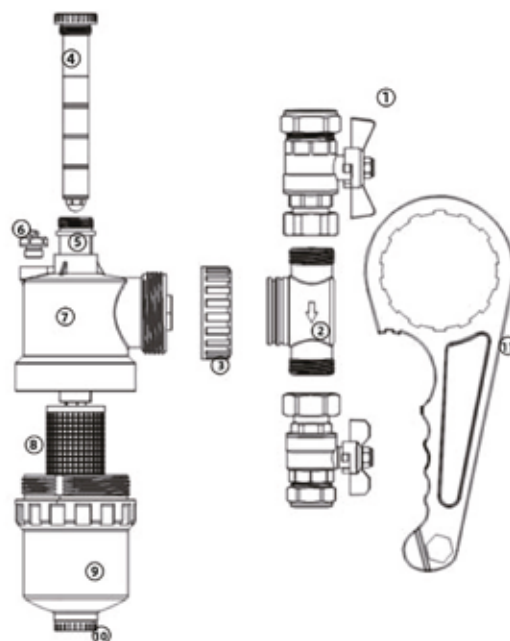
This guarantee does not affect your statutory rights. For any enquiries relating to the guarantee please refer to your retailer.

Important Information:

1. Installation should be carried out by a qualified professional or other fully competent person.
2. Please check that all components are present. If there are any missing or damaged parts, please contact your supplier immediately.

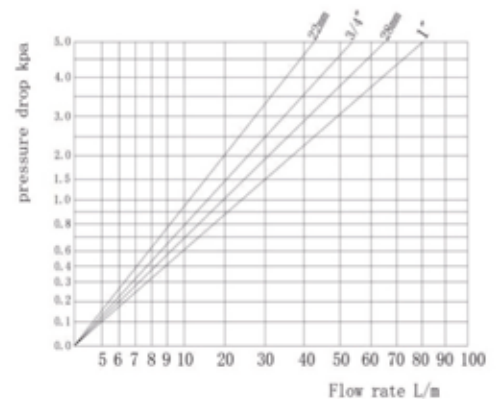
Component parts:

1. Isolating valve
2. Diverter filter fitting
3. Union cap
4. 12000 Gauss magnetic rod
5. Cleaning cover
6. Air bleed valve
7. Filter upper body
8. Strainer
9. Filter lower body
10. Sewage outlets
11. Multifunction wrench



Technical Characteristic:

1. Inlet: G1
2. Outlet: G1
3. Maximum temperature: 120°C
4. Volume: 540ML
5. Maximum Pressure: 10 bar
6. Magnetic: 12000 Gauss
7. Strainer: 300 micron and 800 micron
8. Flow rate



Installation Instructions:

Only a competent person such as a qualified heating engineer should install the device.

1. Locate a suitable site for the filter to allow access and servicing. Return pipe is recommended, do not fit it between the boiler and the overflow on the open vented systems.

2. Release and drain the heating system pressure.

3. Mark the pipe, using a suitable tool to cut out the marked section and remove burrs.

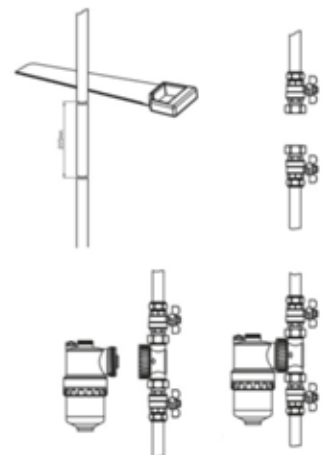
4. Fit the isolating valves provided onto both inlet and outlet pipes.

5. Introduce the diverter, ensuring the arrow direction follows the heating system flow. Fit the diverter using the provided flat washers, and tighten the inner nuts fully. After that, tighten the outer compression nuts on valves to ensure a watertight seal.

6. Fit the filter body to the diverter with enough strength, and hand tightening the locking collar (Do not over tighten). Filter body must be installed vertically.

7. Open the isolation valves and turn on heating system.

8. Vent as required by using the Top Air Bleed Valve.



Annual Servicing Requirement:

To maintain optimum efficiency, annually cleaning is recommended.

1. Isolate the heating system and close both of the two isolating valves. Prepare a suitable bucket to collect spillage.
2. Remove the magnetic rod and open the drain valve. Put it into the bucket.
3. If there are too many impurities, open the isolating valve(inlet water end) and rinse with the inlet water.
4. A major annual cleaning is recommended. Open the lower body of the magnetic filter with a multi-function wrench(with 12N). Remove the strainer, and clean by soapy water.
5. Put in the magnetic rod and strainer after cleaning. Tighten upper and lower bodies with 14N (top bleed valve should be in upper position). Slightly open the inlet valve and the bleed valve until all air is removed. Close bleed valve then open fully both inlet and outlet valve and check for any leaks.
6. Start the heating system

WARNING: Please observe the safety instructions provided in this documents. This filter contains a strong magnets. Care and attention should be taken at all times during installation and servicing. Do not place the magnetic core on any ferrous surfaces or near ferrous items.

Chemical dosing:

1. Isolate the boiler and close both isolating valves. Release air pressure by opening the Top Air Bleed valve.
 2. Drain the filter fully: Place bucket to collect the water and undo the bleed valve. Once the water has been drained replace the bleed valve.
 3. Dose chemicals through the open filter top once complete then hand tighten the bleed valve in the filter top.
 4. Slightly open the inlet valve and the bleed valve until all air is removed. Close bleed valve then open fully both inlet and outlet valve and check for any leaks.
 5. Turn on heating system to flush, vent system is required.
- Attention:** Do not allow chemicals to remain static in the filter for long periods.

Trouble shooting and problem solving:

Problem 1: Water is leaking from the filter

Solution: Turn off the system, close the isolating valves. Perform the following checks:

- a. Check all seals for location and condition.
- b. Check the isolating valve nuts to ensure they are fully tightened.
- c. Check the converter locking collar is firmly tightened and not cross threaded.

Problem 2: Poor flow through filter

Solution: Clean the filter when reduced flow is noted.