

Annual Service Requirement

- To maintain optimum efficiency, annual cleaning is recommended.
- 1.Isolate the heating system and close both the two isolating valves. Prepare a suitable bucket to collect spillage.
  - 2.Unscrew the knurled moulding and withdraw the magnetic bar.

CAUTION:

The magnetic bar is a very powerful 12,000 gauss magnet. Keep away from personnel with heart pacemakers, any sensitive electronic devices storage media or magnetic bank cards.

3.Drain the filter chamber into the bucket using the drain-off valve €4.Use the castellated s panner (12) supplied (or a strap wrench) to loosen the body (4) of the filter chamber. Unscrew the filter body fully, clean the body (4), the stainless steel filter (5) and the magnet cover (7) using hot, soapy water, and rinse with fresh water.5.Re-assemble the magnet bar (1) to t he body section ( 4), taking care t o fit the stainless steel filter (5) centrally inside body (4) and O-ring (6) onto the stainless steel filter side (5) . Fully hand-tighten the magnetic bar (1) to filter body (4). Ensure drain-off valve is closed.

6.Partly open the inlet valve (according to the flow direction arrow on diverter (11) and the brass air vent bleed screw, until all air is removed. Close bleed screw, then fully open inlet and outlet valves and check for leaks.7.Start the heating system

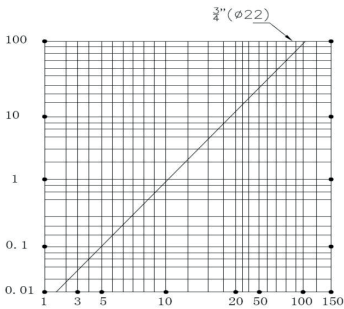
**WARNING:** Please observe the safety instructions provided in this document. This filter contains a strong magnet. Care and attention should be taken at all times during installation and servicing. DO not place the magnetic core on any ferrous surfaces or near ferrous items.

Chemical Dosing

- 1.Isolate the boiler and close both isolating valves. Release air pressure by opening the rightAir Bleed Valve. Prepare a suitable bucket to collect spillage.
  - 2.Drain the filter fully via drain-off valve €
  - 3.Unscrew and remove filter body (4) as per point 4 above (Annual service requirement). Fill body (4) with water treatment chemical (capacity 30ml). Re-assemble the magnet bar (1) to the body section (4) as per point 5 above.
  - 4.Re-connect the filter to the heating system as per point 6 above.
  - 5.Run the system for approximately 5 minutes to disperse chemical additive into system. Repeat
- ATTENTION: Do not allow chemicals to remain static in the filter for long periods.

1.6. Technical Information

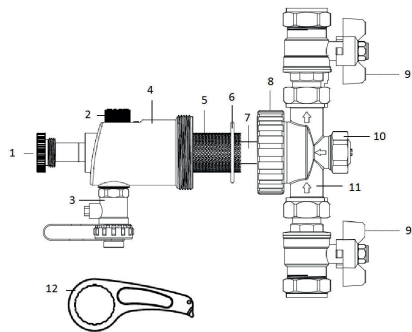
Filter Type	AFM-108 PLUS
Connecting screws	3/4"
Max. magnetic induction	12,000 Gauss
Filter volume	120 ml
Maximum temperature	120°C
Maximum pressure	12 bars
Maximum flow 1 Kpa (l/m)	15 l
Maximum absorption capacity	115 g
Strainer density	300 µm
Magnet diameter	14.5 mm
Mass	596 g (without valves)
Dimensions	147mmx120mm



BO MAG-2 Magnetic Filter



Parts:



1- Magnetic bar	7- Magnet cover
2- Cover	8- Filter body
3- Drain-off valve	9- Ball valve
4- Filter body	10- Air bleed valve
5- Stainless steel filter	11- Diverter
6- O-Ring	12- Spanner

Trouble Shooting and Problem Solving:

- Problem 1: Water is leaking from the filter
- Solution 1: Turn off the system, close the isolating valves. Perform the following checks:
- i. Check all seals for location and condition
  - ii. Check the isolating valve nuts to ensure they are fully tightened
  - iii. Check the locking collar is firmly tightened and not cross threaded

- Problem 2: Poor flow through filter
- Solution 2: Thoroughly clean the filter when reduced flow is noted

Installation instructions

- The filter may only be installed by a qualified person, such as a qualified service technician or plumber.
1. Find a suitable location for the filter that will allow sufficient access for service (maintenance). We recommend using a return pipe, but do not place the filter between the boiler and the overflow pipe in systems with an open expansion tank.
  2. Drain and depressurize the heating system.
  3. Mark the pipe with a suitable tool, so that you can cut out the marked part and then deburr.
  4. Install shut-off ball valves on the supply and return pipes.
  5. Fit the magnetic filter. Make sure the direction of the arrow follows the flow of the heating system. Use flat washers and fully tighten the union nuts on the valves to ensure a watertight seal.
  6. Open the shut-off valves and switch on the heating system
  7. Bleed air as needed using the their vent valve.

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 open vented systems.
2. Release and drain the heating system pressure
3. Mark the pipe, using a suitable tool to cut 180mm out of 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. Fir the diverter using the flat washers provided 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 and hand tighten the locking collar (do not over tighten)
7. Open the isolation valves and turn on heating system
8. Vent as required by using the Top Air Bleed valve

