INSTRUCTION

T-MAG® compact

THE MAGNETIC FILTER
WITH SEMIAUTOMATIC CLEANING

MINIMUM SPACE, MAXIMUM EFFICACY

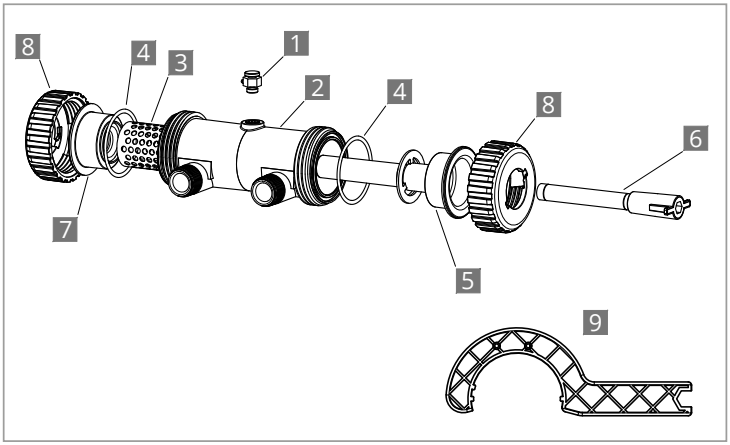
**BEST PROTECTION FOR CONDENSING BOILERS,
HEAT PUMPS, CIRCULATOR PUMPS
AND PLATE HEAT EXCHANGERS**

TOPTHERM®
www.toptherm.it
info@toptherm.it

MADE
IN ITALY

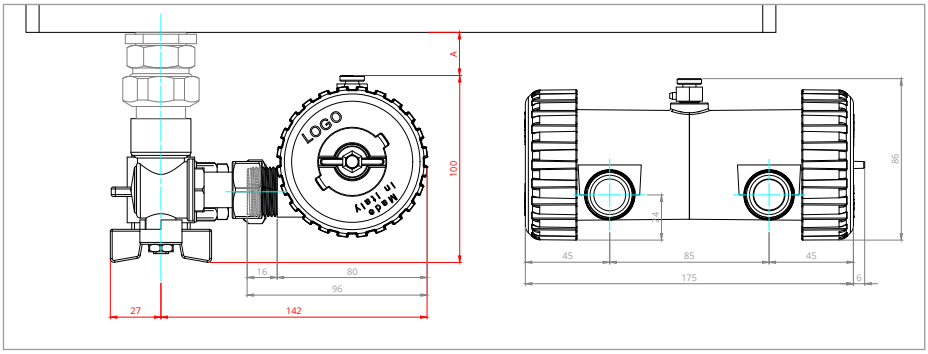
TECHNICAL SHEET

EXPLODED DIAGRAM



1. Vent valve
2. Filter housing
3. Mechanical filtering basket
4. Gasket
5. Cap with magnet
6. Magnet
7. Cap without magnet
8. Ring nut
9. Spanner

DIMENSIONS



TECHNICAL SPECIFICATIONS:

- **Maximum temperature:** 80°C
- **Maximum pressure:** 6 bar
- **Filter body with 3/4" gas connections**
- **Maximum flow rate:** 30 l/minute
- **Volume:** 0,176 l
- **Powered Neodymium magnet of 8.500 GAUSS**
- **Filter material:** NYLON 66
- **Filtering basket** with 450 stainless steel AISI 304 micron mesh

INSTALLATION

T-MAG COMPACT MAGNETIC FILTER FOR A HEATING SYSTEM UP TO 100 LITER OF WATER (80 -100 m²)

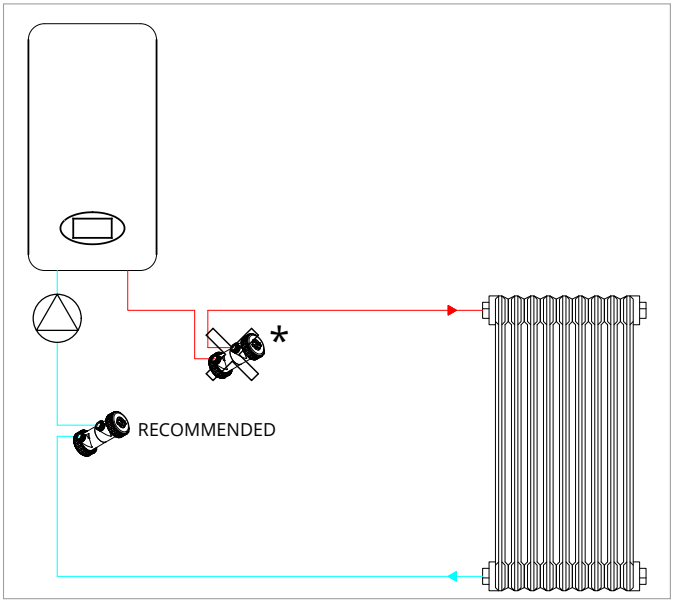
- **T-MAG compact** filter maximum efficacy as main agent in iron oxides separation is performed by adding to the system the inhibitor **PROTECT 1**, by **BUILDCERT** certified, which guarantees the system best protection against corrosion.
- If you want to clean the system without powerflushing or draining it, add to the system the product **CLEAN 1**, a non-corrosive dispersing agent for metal oxides, which may be left in the system with the inhibitor **PROTECT 1**.
- For low temperature systems (underfloor heating systems), it is recommended to add to the system the anti-bacterial **BIOCID** (dosage 0,5-1%).

T-MAG COMPACT filter installation in a wall-mounted boiler (25 - 30 kW)

T-MAG compact filter can be installed anywhere on the main circuit. However, to achieve the best level of protection for the boiler, it is recommended to install the filter on the return pipe of the system (after the last radiator on the system and before the boiler).

IN LINE INSTALLATION UNDER THE BOILER

› **T-MAG compact** filter should be installed with stop-taps on both inlet (three-way valve) and outlet valve (valve elbow).

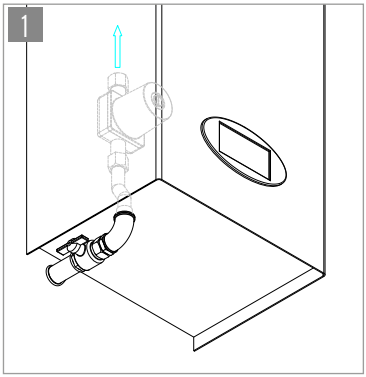


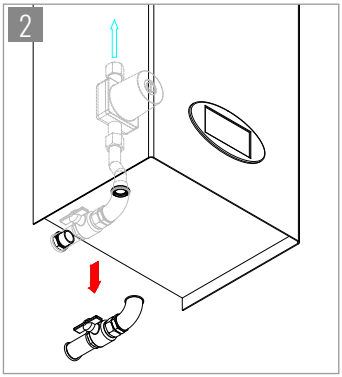
* **T-MAG compact** filter in this position installed does not protect the boiler and its circulation pump.

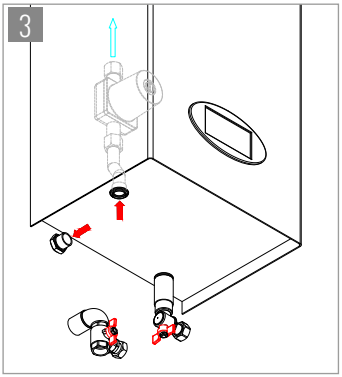
INSTALLATION

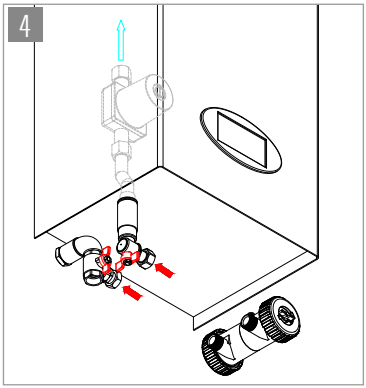
HORIZONTAL RIGHT INSTALLATION:

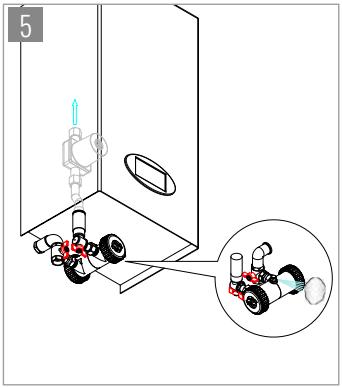
› T-MAG compact filter should be installed with stop-taps on both inlet (three-way valve) and outlet valve (valve elbow) in order to clean the filter in backwashing.



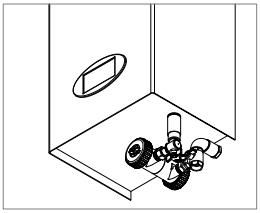


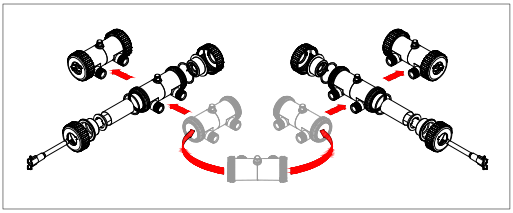


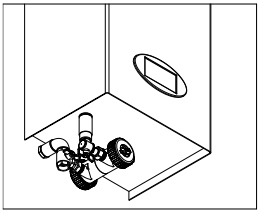




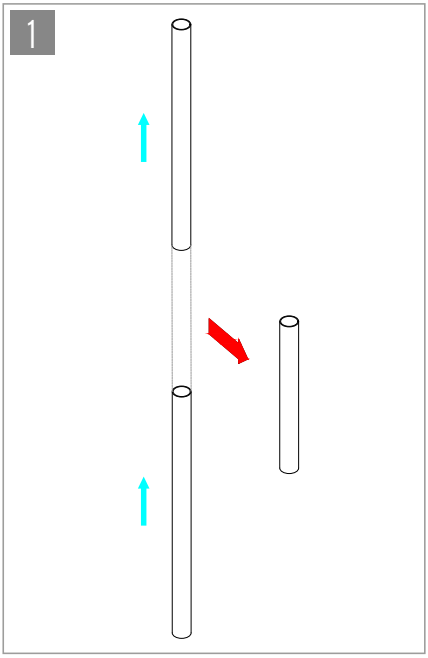
REVERSIBILITY:

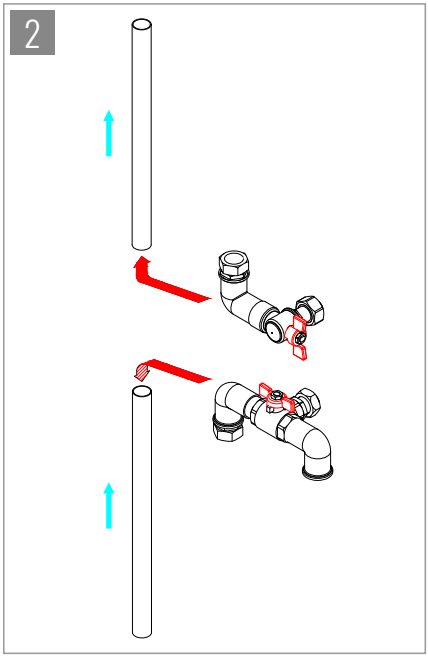


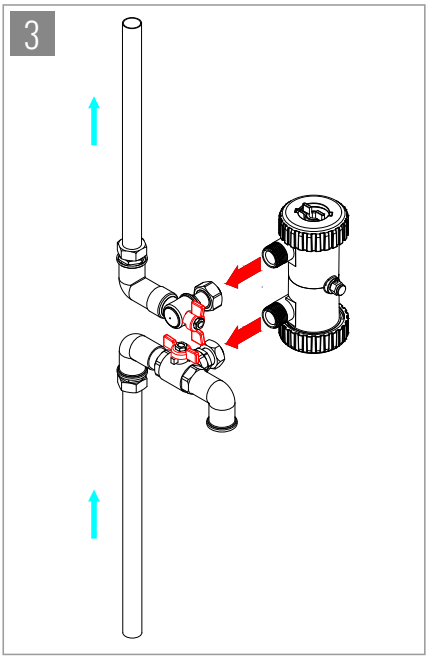


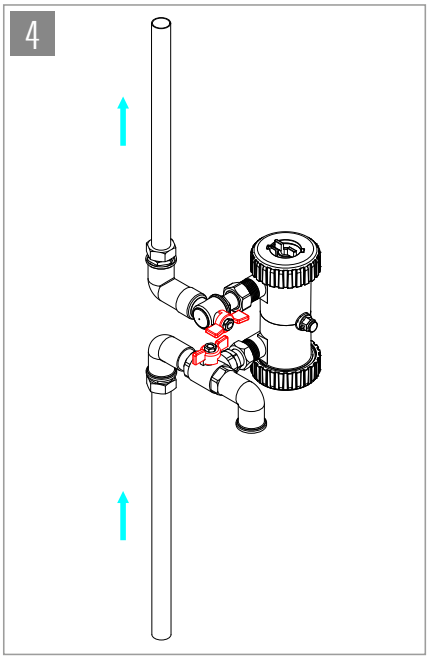


VERTICAL INSTALLATION:









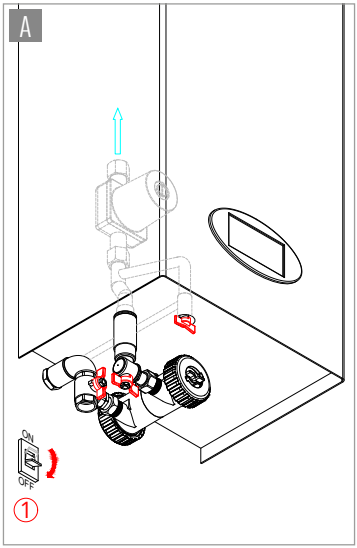
HOW TO CLEAN THE T-MAG COMPACT FILTER

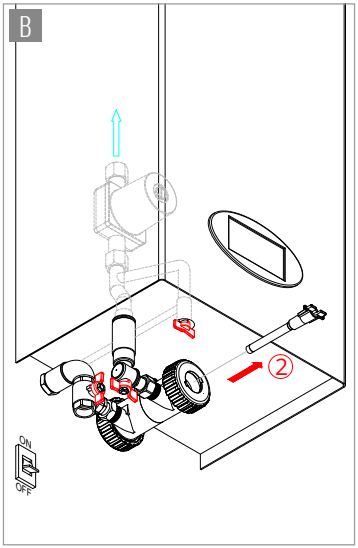
HOW TO CLEAN THE T-MAG compact FILTER

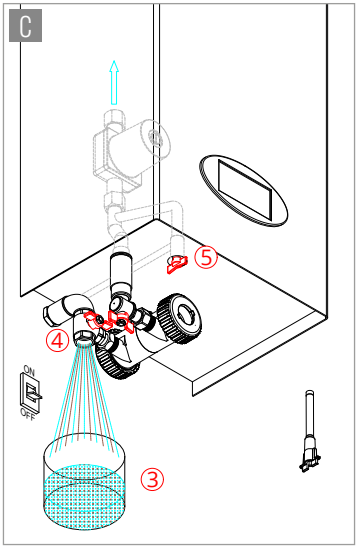
After its installation, T-MAG COMPACT filter should be cleaned periodically. Its cleaning frequency should be run according to the dirt quantity of the system. It is recommended to clean the filter 2 times a week in the first 15/20 days; 1 time a week in the next 30/40 days; 1 time every 15/30 days for the next 3 months. Then every six months. In case of necessity, clean also its filtering basket at least every six months.

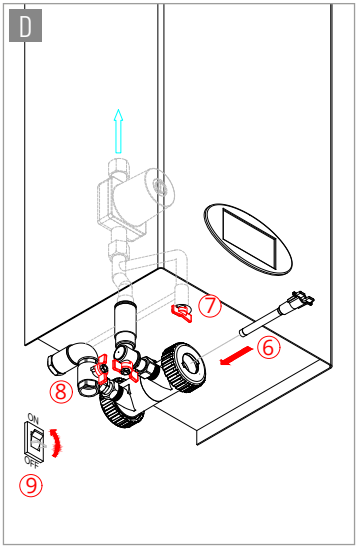
RAPID CLEANING

1. Switch off the boiler
2. Remove the magnet from T-MAG compact filter
3. Put a container under T-MAG compact draining valve
4. Turn T-MAG compact three-way valve into draining position
5. Open the boiler filling valve
6. Insert the magnet in its housing
7. Close the boiler filling valve
8. Turn the three-way valve into operating position
9. Switch on the boiler



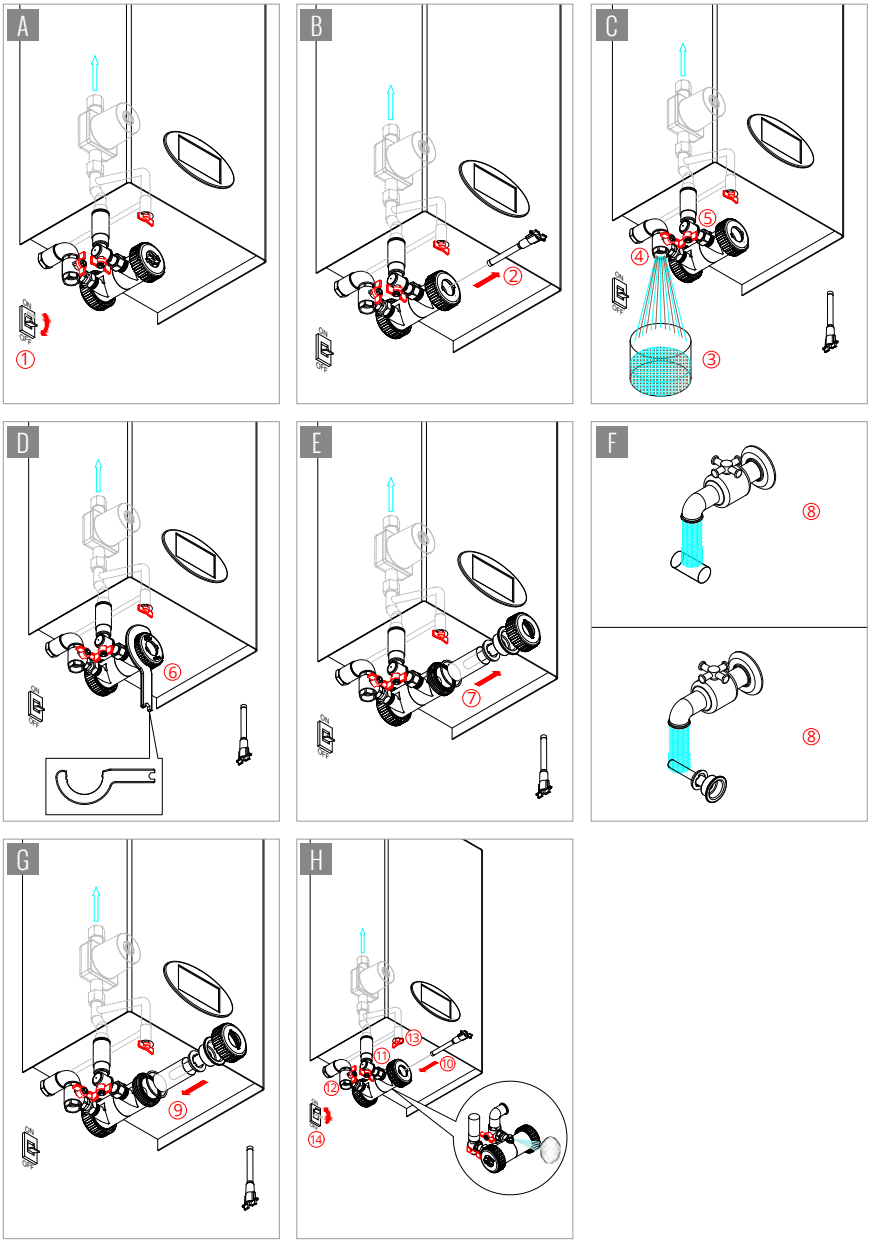






TOTAL CLEANING (Annually or if necessary)

1. Switch off the boiler
2. Remove the magnet from T-MAG compact filter
3. Put a container under T-MAG compact draining valve
4. Turn the three-way valve into draining position
5. Close the filter outlet valve
6. Open the filter ring with its wrench
7. Remove all the components inside the filter
8. Clean with water the filter ring nut and its filtering basket
9. Assembly again the filter
10. Insert the magnet in its housing
11. Open the filter outlet valve (elbow valve)
12. Turn the three-way valve to close the draining
13. Open the boiler filling valve and the vent valve in order to pressurize the system
14. Switch on the boiler



For the maximum efficacy of the magnetic filter and for the best boiler or system protection, use the product **PROTECT 1**

IF THE PRODUCT IS CERTIFIED, THE PROTECTION EFFICACY IS GUARANTEED

For eliminating any metal oxides without powerflushing or draining the system, add the dispersant **CLEAN 1**

TOPTHERM®
www.toptherm.it
info@toptherm.it
by Foridra srl Castelfidardo (AN) - tel +39 071 7211048 - fax +39 071 7819950