

CombiMag Split Twin ultimate power flushing filter



Removes magnetic debris from both flow and return at the same time, irrespective of the flow reverser direction setting.

- 2 x 11,000 gauss of magnetic power spread over 400 cm² surface area.
- Increases power flushing efficiency.
- Reduces time taken to flush a system.
- Prevents circulation of debris through the boiler.
- Reduces black iron oxide discharged to waste.
- Transparent cylinders demonstrate system contamination and the need to clean magnets.
- By-passes enables magnets to be cleaned without interrupting power flush process.
- Supplied in protective tool case.

During the power flushing process clear water is forced through a system, pushing debris ahead of it, and this continues until the dump water finally runs clear. This may take a considerable time.

The CombiMag Split Twin filter starts to remove circulating black magnetic iron oxide contamination from the flushing water as soon as the power flush begins, using the power of two rare earth magnets to extract the debris from the water.

The CombiMag Split Twin filter is installed between the power flushing pump and the heating system using the two 1.5m hoses supplied.

The cyclone construction directs contaminated water through a powerful magnetic field, such that even the smallest of particles are retained on the central magnets, from which they may be easily cleaned during and after power flushing. Collected debris, which may otherwise lead to blockages in

smaller bore pipework, is prevented from re-entering the heating system. The rapid removal of debris from the flushing water prevents saturation of the cleaning solution with black sludge, leading to a more effective power flush.

Debris retained on the magnet is an impressive visual aid. It demonstrates how much debris has been removed from the system, confirms the need for the flush, and demonstrates that the clean has been professionally carried out.

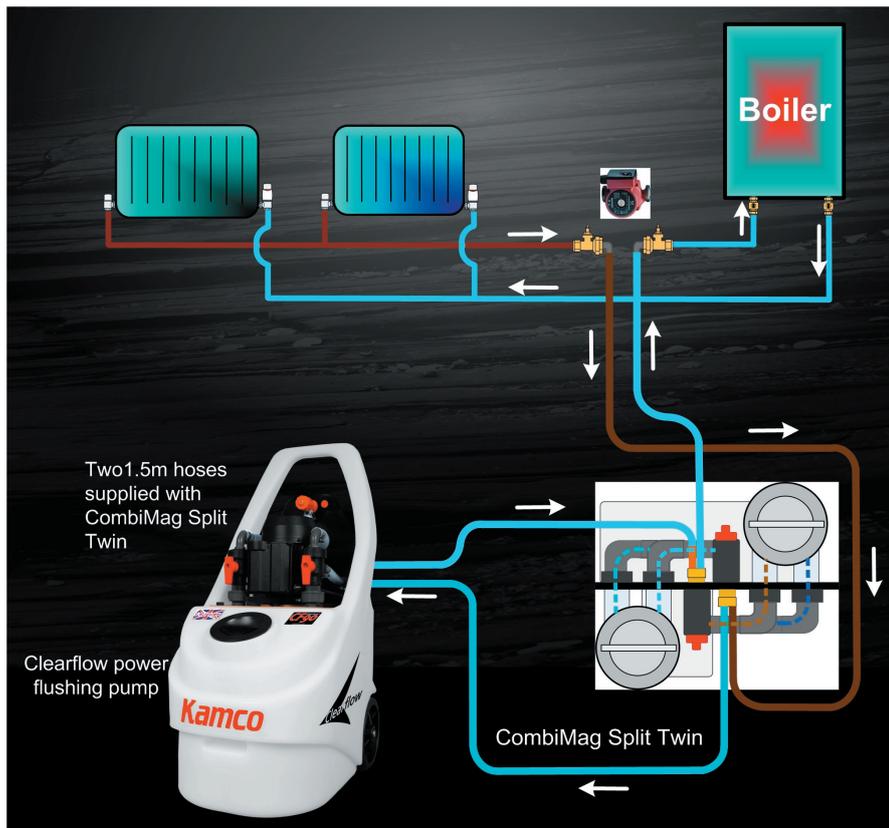
**Two filters in a single compact unit.
Maximum protection in either flow direction.**

Time savings on every job when using the Split Twin will rapidly cover its cost, reducing job time and consequent disruption.

The more effective cleansing process achieved when power flushing with a CombiMag Split Twin filter reduces heating costs and gives a more efficient heating system.



CombiMag Split Twin power flushing filter - operating instructions



Instructions for use

The CombiMag Split Twin is two separate magnetic filters combined in one compact unit.

It is installed between the power flushing pump and the boiler and connected so that each cylinder is in one flow and return hose to give the boiler the highest level of protection during a power flush.

1. Place the CombiMag power flushing filter adjacent to the power flushing pump on a suitable drip tray or in the case.
2. Connect the two supplied 1.5 m hoses onto the lower connection points of each CombiMag cylinder.
3. Connect the power flushing pump flow and return hoses onto the upper connection point of each cylinder and connect to the chosen connection point on the heating system.
4. All four CombiMag three- port valves should be in the **CIRCULATE** position.

Operating instructions

1. Before switching on the power flushing pump, set

the flow reverser lever so that water exits from one cylinder before entering the boiler (see diagram above).

2. Turn on the power flushing pump and immediately check all connections, and the top of the CombiMag cylinders for leaks.
3. Operate with the flow reverser in this direction for approximately ten minutes to remove the bulk of loose corrosion debris.
4. If one of the magnets appears dirty, turn both three-port valves controlling this cylinder 180° into the **BYPASS** position.
5. Remove the securing ring from the top of the cylinder and, gripping the handle firmly, carefully lift out the magnet.

Note: CombiMag magnets are very powerful and are strongly attracted to steel surfaces. Take care not to trap fingers and avoid contact with sensitive equipment.

6. Inspect the magnet for collected deposits and, if necessary, clean as follows:
7. Grip the cylinder lid and handle with one hand. Whilst wearing disposable gloves, grip and slide the magnetite sludge down and off the magnet (see pictures below).

Note: It is advisable to only remove a proportion of the deposits with each stroke, starting at the lower end of the magnet, rather than all at the same time. Clean the end of the magnet.

8. Collect the sludge in a suitable container for later disposal.
9. Re-assemble the CombiMag ensuring that the magnet locates within the circular recess at the base of each cylinder, and turn both three-port valves back into the **CIRCULATE** position.
10. Repeat the inspection and cleaning procedure as required during the power flushing process.

Cleaning the magnets

It is not necessary to remove all deposits during the intermediate cleans whilst power flushing. However, to ensure a long life, magnets should be thoroughly cleaned and dried at the end of each job.

NOTE: If preferred, the unit may also be used with the two magnets in series simply by using one hose coupled between the upper connection of one cylinder and the lower connection on the other cylinder.

What is included:

1. CombiMag Split Twin unit.
2. 2 x 1.5 m hoses with 3/4" female brass hose connectors each end.
3. Carry case.

Caution

The CombiMag Split Twin generates a powerful magnetic field. When removed from the cylinder, keep magnets away from electronic equipment, watches, mobile phones, credit cards etc.

Technical data

Strength of each magnet:	11,000 gauss
Length of magnets:	400mm
Magnet surface area:	2 x 201 cm ²
Weight of unit:	9.6 kg
Overall height:	475mm
Overall width:	350mm
Overall depth:	265mm

