

## CombiMag TWIN POWER | Twin magnetic power flushing filters



- \* 2x 11,000 gauss of magnetic power spread over 400 sq.cm surface area.
- \* 22,000 gauss of magnetic power.
- \* Increases power flushing efficiency; Reduces time taken to power flush a system.
- \* Prevents re-circulation of debris through the boiler.
- \* Transparent cylinder gives visible indication of system contamination and the need to clean magnet.
- \* Built-in by-pass enables magnets to be cleaned without interrupting power flush process.
- \* Supplied in protective case, with coupling hose.

## CombiMag TWIN POWER | Two filters in a single compact unit. Maximum protection in either flow direction.

### POWER FLUSHING

The fastest and most effective means to remove sludge and corrosion debris from central heating systems is to use a high flow of water to loosen and ultimately expel debris. Power flushing mobilises large quantities of black iron oxide within the system. Clear water is forced through the system, pushing debris ahead of it. This continues until the dump water finally runs clear, and can take a considerable length of time.

### CombiMag TWIN POWER MAGNETIC FILTER MODULE

This filter uses two powerful 11,000 gauss rare earth magnets to quickly capture circulating black iron oxide contamination from the flushing water.

### INSTALLATION

The **CombiMag TWIN POWER** filter is installed in line with any power flushing pump. The cyclone construction directs contaminated water through a powerful magnetic field, such that even the smallest of particles are retained on the central magnet, from which they may be easily cleaned during and after power

flushing. Captured debris is prevented from re-entering the heating system, preventing saturation of the cleaning solution with black sludge, leading to a more effective power flush.

### BENEFITS

- The time saved on every job when using the **CombiMag TWIN POWER** will rapidly cover its cost and reduce disruption for householders.
- The debris retained on the magnet is an impressive visual aid to demonstrate to householders what has been removed from their heating system and emphasises the benefits of a more efficient heating system and resulting reduction in energy usage.

### WHAT IS INCLUDED

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



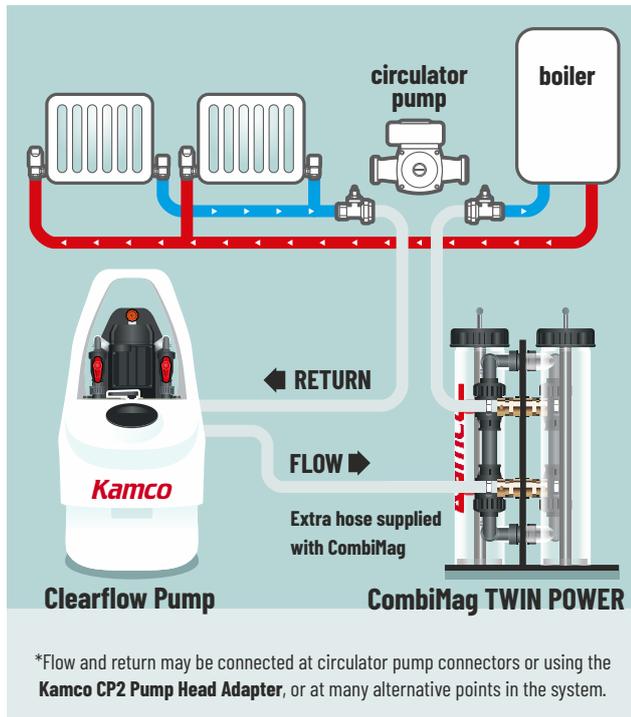
Supplied with protective tool case

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## CombiMag TWIN POWER | Instructions



### GENERAL INSTRUCTIONS FOR USE

Initial set-up should be such that the water flow after leaving radiators passes through the **CombiMag Dual** before entering the boiler to provide it with a higher level of protection in the early stages of the 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.

### OPERATION 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.

**Note:** Repeat the inspection and cleaning procedure as required during the power flushing process.

### CLEANING THE MAGNET

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

**CAUTION - The CombiMag Twin Power generates a very powerful magnetic field. When removed from the cylinder, keep 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 square cm
Weight of unit:	9.6 kg
Overall height:	475mm
Overall width:	350mm
Overall depth:	265mm

**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.

