

When undertaking the chemical flushing stage of a power flush it can be beneficial for the water to be warm, ideally around 50°C. This input of heat generally enhances the performance of flushing chemicals, and reduces the time taken for a power flush.

If operational, the central heating boiler is usually the source of this heat, but if a non-functional boiler is being replaced, boiler heat may not be available.

When installing a new boiler to an existing system, it is not advisable to leave the power flush until the new boiler is operational, because of the very high risk of contamination of the new boiler with debris from the old system, and this would invalidate a boiler warranty.

In these cases, and in other situations when the boiler cannot be fired, the CombiHeat can be used to raise the water temperature higher than ambient.

The CombiHeat is an optional heating element for use with the CombiMag Power Flushing Filter. The CombiMag screw cap with the magnetic element is removed from the canister, and replaced with the CombiHeat power flush heater element.

By utilising a common canister the CombiHeat is an

economical alternative heat source.

The CombiHeat is particularly useful when applying heat specifically to one or two problem radiators when normal power flushing has failed to remove heavy, adhesive deposits.

The corrosion resistant element enables the CombiHeat to be used with all power flushing chemicals in common use.

### Specification

3kw 240v industrial immersion heater element complete with IP55 protective casing.

Top cap and securing ring to suit the Kamco CombiMag Power Flushing Filter.

Pressure relief valve to fit 1/2" BSP female side tapping on CombiMag cylinder.

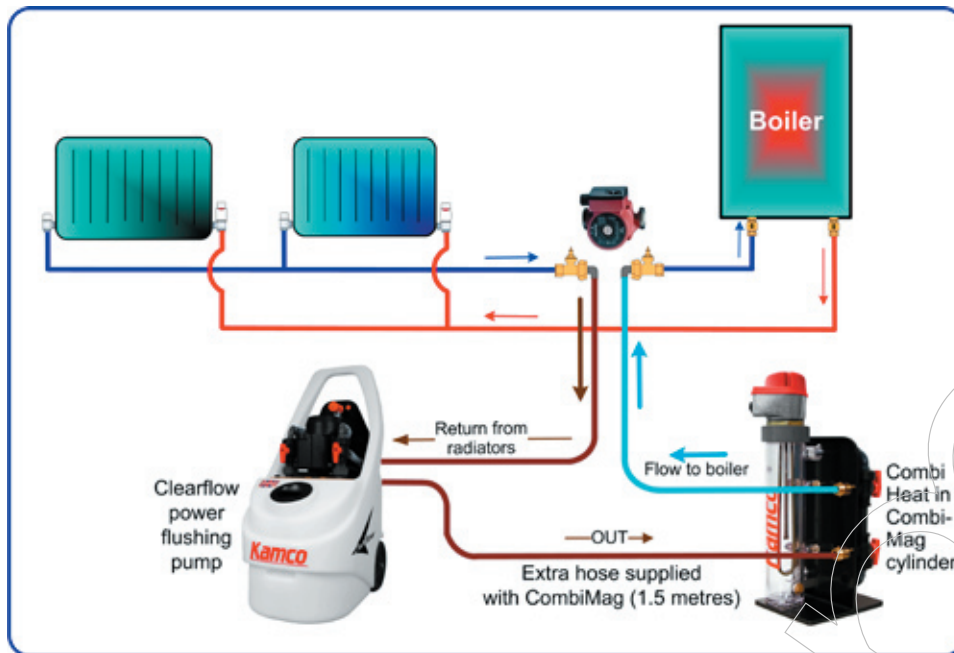
Steel toolbox for storage and transit.

### Pressure relief valve.

The pressure relief valve supplied with the CombiHeat must be fitted to the CombiMag cylinder before the heater is used.

Unscrew the 1/2" BSP plug on the cylinder side and replace with the brass pressure relief valve, sealing it with silicon and PTFE tape.

## CombiHeat instructions



Gently lower the CombiHeat element into the CombiMag cylinder and tighten the securing ring. Re-open both valves (handles pointing away from each other), checking all connections for leaks.

Allow water to circulate through the cylinder for at least two minutes to expel any air before switching the element on. Ensure that an adequate water level is maintained within the power flushing pump tank (i.e. 15cm above the minimum).

Do **NOT** operate the flow reverser or turn the motor off whilst the heating element is switched on.

Ensure both valves remain open at all times whilst the heater is on, (handles pointing away from each other).

Once the desired temperature has been achieved, turn off the power supply to the CombiHeat

Always slide the protective sleeve over the heater element before storing the CombiHeat.

### Connecting the Filter

Connect the CombiMag cylinder inline between the heating system and the Kamco pump, as described above, so that the water flow enters the bottom of the cylinder and leaves at the top.

### Safety Precautions

All normal safety precautions should be observed when using electrical equipment near water.

The plug must be fitted with a 13 amp fuse.

Use with a residual circuit breaker adaptor.

PAT test (Portable Appliance Test) electricians annually

Do not remove the CombiHeat thermostat, and always use with the protective cap in place.

Ensure the CombiMag cylinder is fitted with the safety pressure release valve. (supplied with the CombiHeat).

### Caution

The CombiHeat element will be hot after use and caution should be taken not to touch the heating element when

removing it from the canister.

Be careful not to place the element on any surface that could be damaged from any residual heat or chemicals.

### Operating Instructions

Place the CombiMag power flushing filter adjacent to the power flushing pump on a suitable drip tray.

Before removing the magnetic element ensure the water flow enters at the lower hose connection of the cylinder and leaves at the upper hose connection.

To remove the magnetic element from the canister, first rotate both valves into the by-pass position (handles pointing towards each other).

Unscrew the securing ring from the top of the cylinder and carefully lift out the magnet.

Carefully place the magnet assembly in the CombiMag case.

(Remember that the magnet generates a very powerful magnetic field and is strongly attracted to steel and iron materials. Take care not to trap fingers and avoid contact with sensitive equipment such as watches, mobile phones, credit cards etc.)

### Attention - warranty notice:

*Ensure that water flow always enters the cylinder at the bottom entry and leaves at the top whilst the heater is on, to ensure that it does not run dry.*

*As for any electric heating element, the guarantee is not valid if upon examination the heating element has been found to run dry.*