



- **Extra solvency power dissolves and mobilises rust and sludge.**
- **Cleans during normal operation of heating system.**
- **For use with all metals used in heating systems, including ferrous metals, brass, copper, aluminium and galvanised steel.**
- **Suitable for use with systems of all ages.**
- **Safe and easy to use.** • **Non corrosive.**



### What it does:

Hyper-Flush Concentrate is a high performance chemical cleaning product that removes accumulated corrosion debris and light scale from heating and chilled water systems during normal operation. Hyper-Flush works at a near neutral pH. There is no "gassing" during cleaning, and no need to bleed radiators during the process.

### How it works:

Hyper-Flush Concentrate is a blend of proven chemical additives. An anionic wetting agent ensures that the contaminated surfaces are hydrophilic, allowing surface cleaning additives to reach and loosen deposits from the surface.

Special dispersant polymers then lift unreactive magnetite debris (black iron oxide), which cannot be dissolved, into suspension, for ready removal during the final system flush period.

Red iron oxide (haematite) is converted by powerful chelants into a water soluble iron complex that is swept away with the water flow.

Specific corrosion inhibitors are included in Hyper-Flush Concentrate to give temporary system protection between the period of cleaning and the addition of Kamco SystemSafe-DM Concentrate corrosion inhibitor.

The self neutralising and passivating

properties of Hyper-Flush remove the need for neutralising procedures after use, and metal surfaces are left clean and corrosion free.

### Dosage rate:

Hyper-Flush is very concentrated, and 1/2 litre (500ml) is sufficient to treat a typical central heating system of 100 litres capacity (approx 12 radiators).

### Method of use:

Add to the heating system up to 14 days prior to flushing, with normal operation of the heating system during this time. If the system is not to be power flushed, a minimum of 48 hours is recommended.

If the system is vented, add Hyper-Flush Concentrate to the feed and expansion tank of system after isolating water supply and draining off 15 litres of water. Allow system to re-fill. Alternatively, a SYSTEMSURE IK6 injector may be used to inject Hyper-Flush Concentrate directly into a radiator through the air bleed valve, or the filling loop of a sealed system.

After the treatment period, drain down the system as rapidly as possible, and re-fill with fresh water treated with SYSTEMSAFE-DM Concentrate scale and corrosion inhibitor to prevent further corrosion.

### Using with a CLEARFLOW pump:

Any system flush will be more effective when using a power flushing pump. Hyper-Flush Concentrate should be added to the CLEARFLOW tank during the power flushing operation, once

heavily contaminated system water has been flushed to waste with high velocity fresh water.

Circulate Hyper-Flush Concentrate for a minimum of one hour before once more dumping system water to waste. Guidance notes supplied with the CLEARFLOW pump should be followed.

### Pre-commission cleaning:

For pre-commission cleaning, circulate Hyper-Flush Concentrate at normal temperatures for at least 6 hours, and drain down when convenient, to a maximum of 14 days. After draining, re-fill the system with fresh water treated with SYSTEMSAFE-DM Concentrate scale and corrosion inhibitor.

### Pack sizes:

cartons of 12 x 500ml, and 2 x 2.5 litre, and 10 litre plastic drums.



The Kamco range of high performance chemicals formulated for the care, maintenance and protection of heating systems.