



QUICK GUIDE TO POWER FLUSHING

Please note: Supameg Magnetic in-line filter maintenance

During the cleaning process you will need to keep your eye on the in-line magnetic filter as this will attract iron oxide particles during the procedure and gradually become choked. To empty simply turn off power switch to unit, set right hand valve (return) to closed position (make sure flow direction of water is returning down the return hose) remove the magnet from top of the filter, open the small drain tap over bucket with small length of hose attached, turn on power switch and drain debris into bucket. Once completed turn off power switch, close drain tap, replace magnet, set right hand valve (return) back to recirculate and continue with cleaning procedure. **(Please refer to instructions provided with Supameg for further information on use).**

Step 1) System preparation

Isolate power to heating. If the system to be cleaned is vented, firstly you will need to cap off the cold feed and the vent pipe or create a temporary loop. These will obviously need to be reinstated after power flushing.

Step 2) Flowclean connection

Connect your Flowclean pump to the heating system, most commonly done at the circulating pump or by taking off a conveniently positioned radiator. Connect all hoses, flow & return, dump, overflow, cold water inlet and magnetic filter, isolate power to circulating pump.

Step 3) Valve preparation

To ensure maximum flow rate throughout the system, open all the radiator valves and set any zone valves to manual open. Check for anti-gravity check valves.

Step 4) Start cleaning

Firstly make sure your tank is approximately 5cm above minimum level indicator with clean water, using the water inlet tap. Make sure both valves are set to recirculate, now you can switch on your Flowclean pump. Leave circulating for approximately 15 minutes, regularly reversing the flow.

Step 5) Dump procedure

Now dump initial contaminated water from system. Set right hand valve (return) to dump position whilst making sure your water inlet balances with what you are dumping out, maintain water level in other words. Continue dumping until dump water runs clear.

Step 6) Back to recirculation & adding chemical

Now set right hand valve (return) back to recirculate and turn off water inlet valve, continue to recirculate with all radiator valves open. Now add flushing chemicals to system using your chemical funnel on the front of your tank.

Step 7) Heating water

To assist with the power flushing process (if achievable) fire up the boiler and heat water to approximately 50°C, **(making sure that electrical supply to pump has been isolated)** be sure not to leave boiler on continuously. Continue to recirculate water through the whole system for a further 15 minutes, regularly reversing the flow.

Please note: User manual should also be read before initial use



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Step 8) Individual radiator cleaning

For best results all radiators should now be cleaned individually. Turn off all radiator valves on system apart from furthest radiator, continue to recirculate through individual radiator for 5-10 minutes, regularly reversing the flow. (obviously always making sure at least one radiator is fully open at any one time).

Step 9) Individual radiator cleaning continued

Now turn off furthest radiator and move to next one, repeating (Step 8) on all radiators, working your way back toward your Flowclean Plus. Once completed turn off boiler if you haven't already done so.

Step 10) Individual radiator dump

Once all radiators have been individually cleaned then start dumping individual radiators in reverse of how you cleaned them. Again make sure you maintain water level and continue dumping each radiator until dump water runs clear as in (Step 5).

Step 11) Neutralising system

After the dumping process is complete, turn valves back to recirculate on Flowclean pump and turn off water inlet tap. Make sure all radiators are now open, to return to full system circulation. Now add neutralising agent to system, again using your chemical funnel on the front of your tank. Leave circulating around full system for 15 minutes.

Step 12) Final dump procedure and pH test

With all radiators still open complete final dump procedure (as in Step 5), maintaining water level and continue dumping until dump water runs clear or for approximately 10 - 15 minutes. You will now need to test the pH levels to check dump water is now neutral, this should read the same as a sample from the mains water supply to the building. pH paper or electronic pH meters can be used.

Step 13) Adding inhibitor / system protector

You can now add your inhibitor / protector to the system, either using your chemical funnel at the front of your tank or injecting into a radiator or open pump valve. (Please note you may need to drain a little water out of system to achieve this).

Step 14) Final procedure

Leave your Flowclean pump circulating for a further 10 minutes before disconnecting it and returning system back to normal, in other words reinstate cold feed and vent pipe, make sure feed and expansion tank is cleaned, replace pump or radiator, fully vent and test system, check for leaks and return all valves to original position.

Please note: User manual should also be read before initial use