

Step-by-step guide to power flushing a central heating system

- 1 If system is vented, cap off the cold feed and expansion pipe (for the duration of the power flush only). Omit this step if the system is sealed.
- 2 Connect Clearflow pump into heating system. Connect discharge, water inlet, and overflow hoses to Clearflow pump.
- 3 Open all radiator valves (both ends of each radiator) and lock-shield valves, and set any zone valves to manual position, to allow full flow throughout heating system.
- 4 Switch on Clearflow pump. Set both Clearflow valves to circulation mode for ten minutes, reversing flow through system regularly.
- 5 Set one Clearflow valve into the dump position, so that dirty water is discharged to waste, and open water inlet valve.
- 6 Adjust inlet water valve to ensure that water level remains constant. Continue discharging until dump water is relatively clear.
- 7 Set Clearflow into circulation mode, with full flow through the whole heating system (both valves on every radiator open).
- 8 Remove tank cap and pour 2.5 litres POWER FLUSH FX2 flushing chemical (or 500ml of HyperFlush Concentrate) into Clearflow tank.
- 9 If possible, switch on boiler to heat water to 50°C. It is not necessary to leave boiler firing continuously.
- 10 Continue circulation through wide open system for fifteen minutes, to distribute chemical, whilst reversing flow regularly.
- 11 Close all radiator valves except on one radiator (usually that nearest to Clearflow pump). Allow full flow through radiator for five minutes, reversing flow regularly.
- 12 Shut off first radiator, and move to second. Work around heating system systematically, putting full flow through every radiator in turn.
- 13 After circulating through last radiator, switch to dumping on that one radiator, until water runs crystal clear.
- 14 Operate flow reverser and Clearflow valves to dump with water flow in opposite direction, until water again runs clear.
- 15 Open up previous radiator, and dump on that until water runs clear. Work around system in reverse, dumping through each radiator alone in turn.
- 16 Re-open all radiator valves completely. Set both Clearflow valves to circulation mode, restoring circulation through complete heating system.
- 17 If PowerFlush FX2 has been used, add one tube of Neutralising Crystals to Clearflow tank, and circulate for ten minutes. Omit this step if using HyperFlush Concentrate.
- 18 Commence final dump procedure, with all radiator valves wide open. Continue dumping until discharge water is crystal clear. Check TDS of dump water.
- 19 Test that dump water is neutral with pH meter or pH paper, and add Systemsafe-DM Concentrate corrosion inhibitor to Clearflow tank.
- 20 Circulate for ten minutes before disconnecting Clearflow pump. Restore system to normal operation, and bleed air from radiators. The power flush is now complete.

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