



Proflush® Professional Set up instructions

A Proflush machine may be connected to the heating system in several ways.

- 1 Across the 1 1/2" BSP female couplings left after the circulating pump has been removed.
- Adaptors are supplied in the tool kit for this purpose.
- 2 Across the radiator tails (having firstly drained and disconnected the radiator).
- Adaptors are supplied in the tool kit for this purpose.
- 3 Across the flow and return connections at the boiler, isolating the boiler itself.
This is the preferred method when flushing a heating system prior to installing a boiler.

Vented Systems

- 4 If flushing a vented system join together or cap off the open vent and cold feed to the feed and expansion cistern.

How to set up the proflush machine.

- 1 Connect the Proflush machine to the heating system as per the instructions above.
- 2 Run a suitable length of the PVC tube from the Proflush "OVERFLOW" connector to a foul drain.
- 3 Run a length of the "PVC tube from the Proflush® "FILL" connector to a suitable mains water supply.
- 4 Open the "FILL" ball valve and fill the Proflush container up to half way between "MIN" and "MAX"
- 5 Connect the 2 female dump line connectors to the 2 male connectors on the dump valves on the Proflush machine and run the other end to a foul drain. The Proflush machine is now ready to use.



Proflush® Professional

Step-by-step guide

- 1 Make sure that all rad valves, TRV's and anti-gravity valves between the Proflush unit and the heating system are fully open. Start the Proflush unit and ensure that liquid level in the tank remains above the "MIN" mark, adding more water if necessary. Allow pump to run for ten minutes, reversing direction of flow regularly.
- 2 Ensure that Flow Reverser handle points away from the DUMP valve side of pump. Close the return ball valve (which will be on the same side as the Dump valve), and open the Dump ball valve. By doing this, system water is diverted to waste down the dump hose. The liquid level in the tank will immediately begin to fall, and the mains water inlet supply should be turned on so that the volume of incoming water compensates for that being forced out of the system to waste.
- 3 Allow to run until the waste water runs relatively clear, check with a TDS Meter to ensure that the reading is within 20% of the reading on mains water. Ensure that liquid level in tank remains above the "MIN" line at all time. Restore circulation through the Proflush unit by opening the return isolating ball valve on DUMP valve side at the same time as closing the Dump valve and water supply inlet ball valve. Check that the liquid level in the tank remains stable. Add more water if necessary. Vent all radiators to ensure that there are no air pockets.
- 4 Add the appropriate dose of Prochem® Sludge Remover to the Proflush tank or if scale is present Prochem® Descaler instead. This should be adequate for a normal three-bed house, i.e. ten single radiators/ 100 Litres. If the system has severe flow problems double the dosage. Circulate for 15 minutes checking the entire system for leaks. If there are no leaks, you may fire up the boiler and run at temperature up to a maximum of 85°C for no more than 2 hours.
- 5 Turn off the boiler and close off all radiator valves except those on the radiator nearest to where the Proflush is connected to the system. Flush this radiator for about 5 to 10 minutes using the flow Reversing Valve frequently to change the direction of flow and aid removal of all debris. Note: If the pre-cleaning system check identified cold or partially blocked radiators, commence the individual radiator flushing procedure with the worst affected radiator first, progressing to less problematic radiators.
- 6 When ready to dump the contents of this radiator to drain, close the Return ball valve and open the Dump line ball valve. Ensure that the Reversing Valve is pointing away from the DUMP valve. This will allow the contaminated water to go to drain. On Double Dump models the Reversing Valve should always point towards the opposite side of the machine to the DUMP valve being used.
- 7 Open the mains water inlet ball valve and fill with fresh water keeping the level in the tank the same. After a short period of time the contents of the tank will have changed colour from dirty to clear. Again check with the TDS Meter, this time to get a reading within 10% of the mains water. If ok, close the dump valve, open the return valve and close the mains water inlet valve. Then close the radiator valves and move on to the next radiator in the series, repeating this procedure to the end of the system.
- 8 On completion of the flushing process open all radiator valves to give a flow on entire system. Repeat section 2 to flush out entire system and replace with clean water ensuring the level in the tank never falls below the minimum mark.
- 9 Check a sample of the system water with a TDS Meter again looking for a reading within 10% above of the sample of mains water. If there is any difference visible, (a difference of 10% above the figure of mains water supply and system water is considered acceptable) continue to flush system until both samples show a figure within 10% above of mains water.
- 10 Prochem® Inhibitor can be added to the system either via the Proflush® tank before disconnecting from the system and allowed to circulate for approx 15 minutes. Alternatively the Prochem® Inhibitor can be put into the system after cleaning via the header tank.
- 11 Close water inlet ball valve. Isolate the flushing pump from the heating system by turning off the Flow and Return Ball Valves and switch off the Proflush machine.