

SIMPLE & EFFECTIVE CENTRAL HEATING FLUSHING



Operations Manual

What's in your kit?

The following are the Thoroughflush Kit Contents:

- 1 x Thoroughflush System
- 1 x Large hose bag
- 2 x Small bag (Thoroughflush & fittings)
- 30m Coil $\frac{3}{4}$ ID reinforced PVC clear hose
- 10 x $\frac{3}{4}$ Hose clips
- 10 x $\frac{3}{4}$ Female brass hose tails
- 15 x $\frac{3}{4}$ High grade washers
- 2 x $\frac{3}{4}$ Coupling (to join hoses together)
- 3 x $\frac{3}{4}$ Male brass 15mm compression couplings
- 3 x $\frac{3}{4}$ Male brass 22mm compression couplings
- 4 x $\frac{3}{4}$ Male plugs (to cap pipes when removing from system to prevent water damage)
- 1 x $\frac{3}{4}$ - $\frac{1}{2}$ Brass reducing fitting including rubber washer
- 1 x 2.5m Length velcro strap (keeps your pipes tidy)
- 1 x Instruction page
- 1 x Sticker



Operation Guide

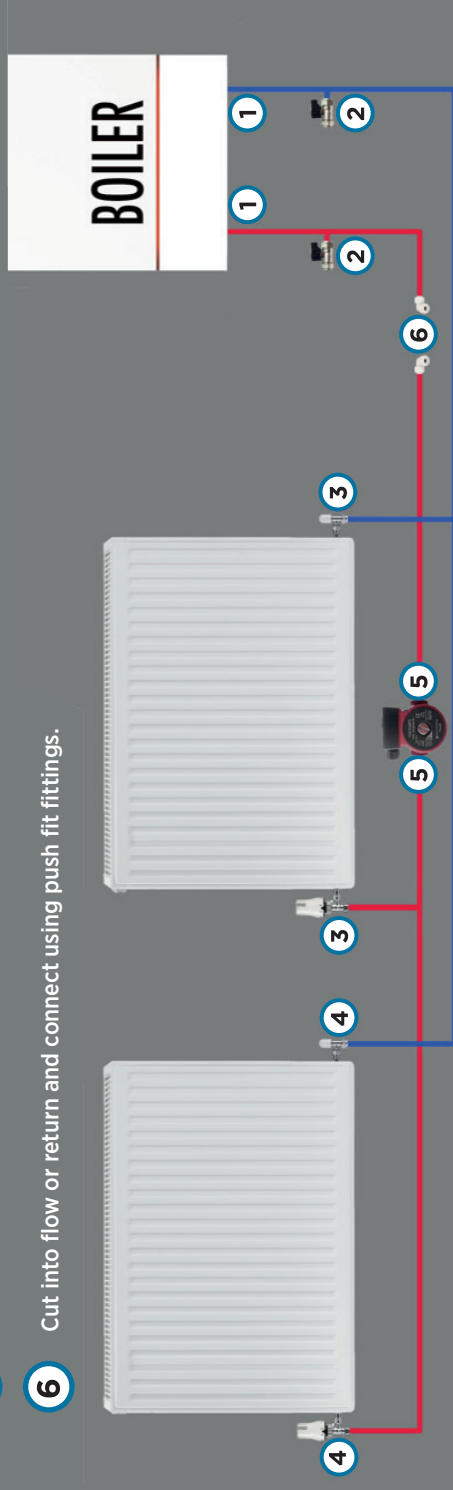
- Connect hoses from 'A' & 'B' to the heating system flow & return. Connection points to system will vary
- Connect hose from 'Inlet' to water supply using a suitable back flow prevention device (boiler filling loop, washing machine isolation valve) see BS EN 1717
- Connect hose from 'Outlet' to foul drain. Secure hose as when diverter changes position, increased flow may occur
- Open all radiator valves, close any bypass valves etc making note of position. Ensure system is correctly sealed i.e. open vents, cold water feed from header tanks
- Close all isolation valves on device
- Test connections by opening water inlet valve, now open 'A' & 'B' valves
- Open 'Outlet' valve on device to start system clean. Ensuring end of outlet hose is secure at the foul drain. Please follow water regulations for disposal of waste water (i.e. no hose down toilet pan)
- Allow water to flow for several minutes, turning the central diverter control to reverse flow regularly. If water pressure and flow rate are good when changing position, an increase of flow may occur at foul drain as flow direction changes
- Close down radiator valves leaving the flow through 1 radiator only (do not close all valves on system as pressure may build up)
- The water may now start running dirty. After several minutes, turn central diverter control from 'A' to 'B'. This will reverse the flow. Do this several times to until water runs clear
- Turning the central diverter control back and forth will create turbulence in system and remove more debris. Radiator agitation may be used at this stage
- Open next radiator on system, close the one that has just been flushed
- Carry out same procedure as above on all radiators until system is clean
- Testing with Turbidity tube and TDS meter throughout the flush process is recommended. This ensures water is clear from debris and chemicals. Carry out full water test if required using a water sampling kit (available from Thoroughflush)
- When satisfied with the system water quality, close all valves on device and remove from system
- Treat system water as recommended in boiler manufacturer's instructions
- Reinstall all radiator and bypass valves to required position. Check system and restore normal operation

The Thoroughflush operates using mains water pressure, any person operating the device should be competent in system flushing and fully understand heating systems. A pressure reducing valve is recommended if water pressure is high (assessment to be made by user on site). A suitable backflow prevention device must be used to connect water supply to the Thoroughflush (see BS EN 1717). Thoroughflush recommends using a boiler filling loop, washing machine connection or garden tap as these should be fitted with a double check valve.

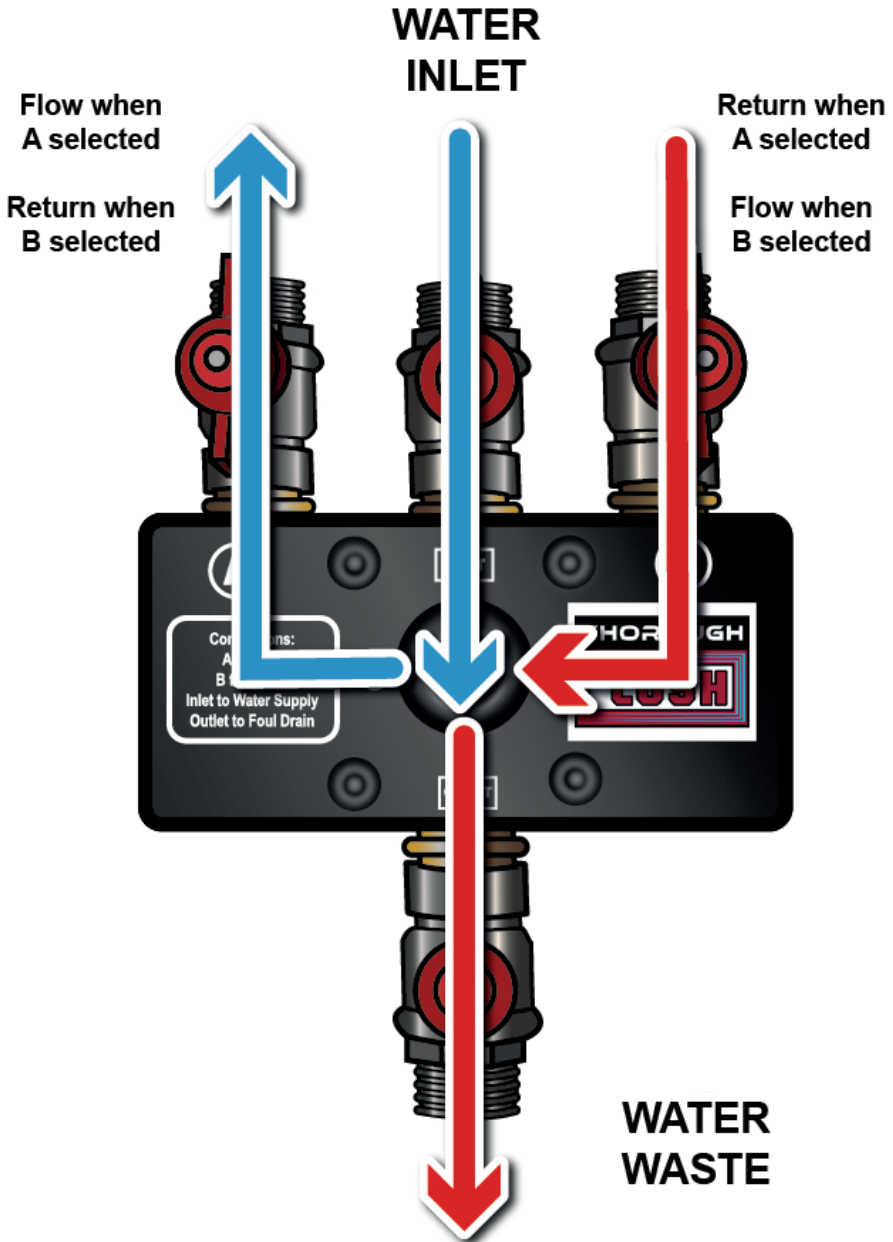
Thoroughflush accepts no responsibility for any damage caused from incorrect operation.

Connecting the Thoroughflush to the Heating System

- 1** Isolate boiler, connect to flow and return pipes.
- 2** Install permanent tees to flow and return pipes with isolation valves (preferred method).
- 3** Remove radiator and connect to flow and return valves.
- 4** Disconnect flow and return pipes from radiator and connect to radiator valve tails to flush individual radiators.
- 5** Remove pump and connect to pump fittings, or use a pump head adaptor.
- 6** Cut into flow or return and connect using push fit fittings.



Thoroughflush Connections



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