

**UNIVERSAL HEATING LTD****DOMESTIC & COMMERCIAL ENGINEERS**

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CUSTOMER:

DATE:

Why does system need flushing?

RECOMMENDATION BY OTHER COMPANY	PREVIOUS SURVEY	NEW BOILER INSTALLATION	JOB DATE

Type of system:-

VENTED	SEALED	FULLY PUMPED	GRAVITY HOT WATER	THERMAL STORE
(Need to cap off cold feed and expansion pipes.)			Is there a non return valve on return side of radiator circuit? Can gravity circuit be closed off?	(Need to drain down and loop out cylinder, and flush radiator and boiler circuits separately.)

Age of system:-

Boiler	Radiators	Pipework

Type of boiler:-

Conventional	Combi type	Condensing
Serial number:		If condensing boiler, is secondary heat exchanger aluminium?

Location of boiler:-.....

Type of water cylinder:-

None (combi system)	Conventional indirect	Primatic / Fortic	Thermal store
		(Need to drain down and loop out cylinder.)	(Need to drain down, loop out cylinder, and flush radiator & boiler circuits separately.)

Type of pipework:-

Copper 15mm / 22mm	Microbore	Microbore	Steel pipe work?
If microbore system, are twin entry radiator valves fitted? If so, are all radiators completely warm when boiler fired? (i.e. are the radiator 'injector' tubes still fitted correctly?)			

POWER FLUSHING SURVEY and CHECK LIST

If single pipe system, is there circulation (heat) to all radiators? Cold radiators will need removal from system and individual flushing.
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If elderly steel pipe work, is system sufficiently sound to power flush? (Or would it be better to re-pipe?)
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Location of system circulator pump:-

In boiler casing	Adjacent to boiler	In airing cupboard	Elsewhere?

Best location to connect Clearflow pump?:-

On to circulator pump fittings	On to radiator	Elsewhere?

Number of radiators?:-

Steel	Aluminium	Are they all getting warm?	TRVs fitted?	Any obvious signs of neglect / leaks?
			Yes / No	
Do all thermostatic radiator valves (TRVs) open fully?				

Are there zone valves? Where are they located?

Number of valves	Airing cupboard	Elsewhere

F & E tank

Location	Checked ?	Condition?

Best place to connect onto for good fresh water supply?:-.....

Best place to locate power flushing pump?:-.....

Across circulator pump fittings	Across radiator tails	Across flow and return at boiler	Across flow and return pipe work from disconnected cylinder

Need to use a drip tray?.....

Best place to run dump hose to?:-.....

Toilet	Outside drain	External hopper	Elsewhere?

Colour of heating system water, as run from bottom of a radiator:-

Clear	Orange	Dark brown	Black

POWER FLUSHING SURVEY and CHECK LIST

POWER FLUSH MONITORING FORM

Visual inspection of system water before powerflush:

Clear	Orange	Dark brown	Black

Analysis results

Test parameter	Mains water	System water before power flush	System water after power flush
pH			
Soluble iron (ppm)			
Soluble copper (ppm)			
Chloride (ppm)			
Hardness			
Inhibitor (ppm molybdate)			

TDS (Total Dissolved Solids) readings

Mains water (ppm)			System water before flush (ppm)		
When checking dump water TDS from each radiator when dumping, note results below (ppm):					
Radiator 1		Radiator 8		Radiator 15	
Radiator 2		Radiator 9		Radiator 16	
Radiator 3		Radiator 10		Radiator 17	
Radiator 4		Radiator 11		Radiator 18	
Radiator 5		Radiator 12		Radiator 19	
Radiator 6		Radiator 13		Radiator 20	
Radiator 7		Radiator 14		Radiator 21	

Flushing chemical used:

Power Flush FX2		Hyper Flush	
Corrosion inhibitor used:			
Systemsafe-DM		Systemsafe-IC	

The undersigned has power flushed the system according to best industry practice and following procedures detailed in code of practice BS7593:2006.

Name:	Signature:
Date:	