

## SCHEMATIC PLUMBING DIAGRAMS FOR SOLID FUEL SYSTEMS.

Read in conjunction with; **Reduce Your Heating Costs.**

**PLUMBING DIAGRAMS FOR-:**

**WOOD / MULTI-FUEL BURNING STOVES PLUS WATER HEATING.**

**WOOD / MULTI-FUEL BURNING, KITCHEN BOILERS.**

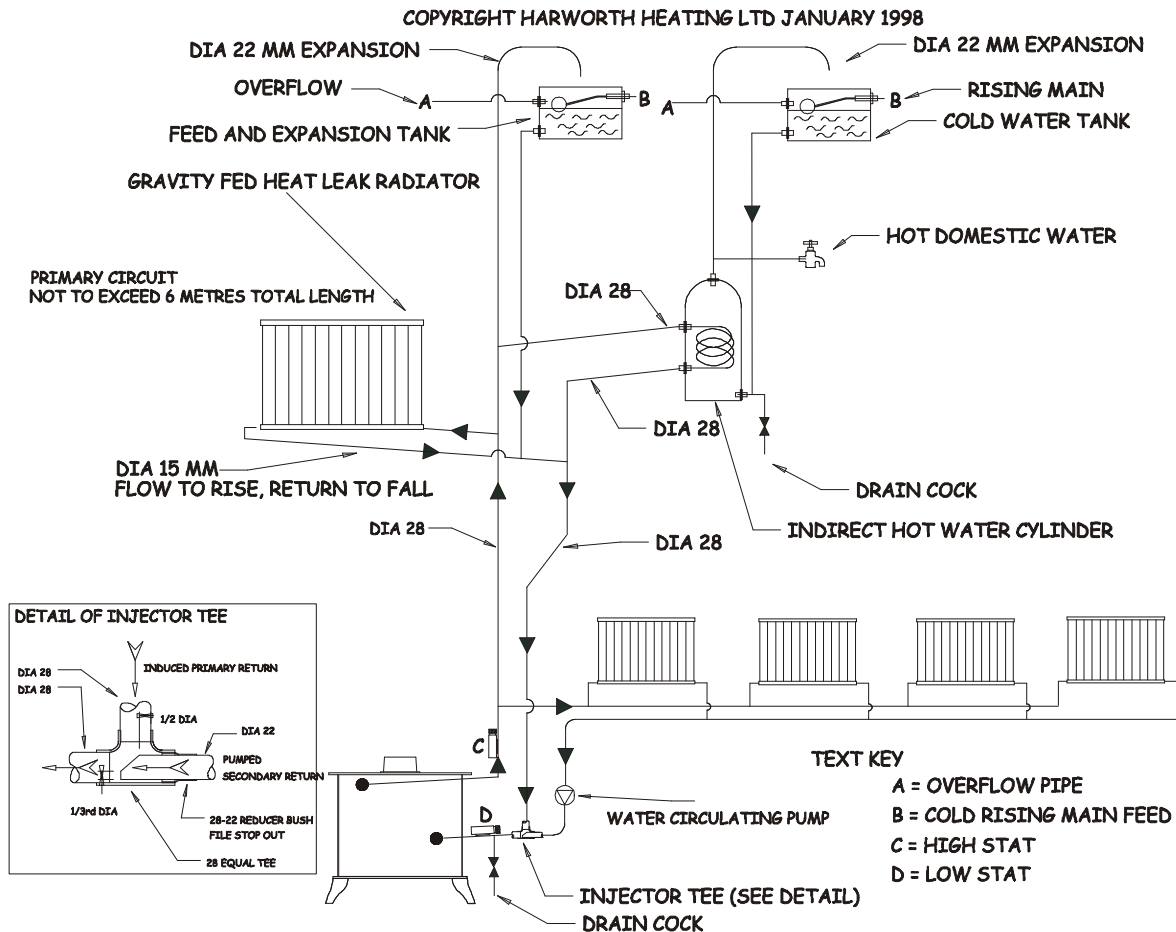
**WOOD / MULTI FUEL BURNING COOKERS PLUS WATER HEATING.**

(Pipe sizes will vary according to appliance output)

The key feature of this layout is the injector tee, which allows primary gravity circulation to occur when the pump is not running and induced gravity flow to occur when the pump is running.

To reduce the necessity of running four pipes from the boiler, it is possible to fit the injector tee at first floor level and then to fit a flow and return only to the boiler connected diagonally as shown.

In case of electrical failure it is essential to allow at least 25% - 30% of the boiler output, to be available as a form of gravity heat leak. This can be achieved by fitting radiators teed off the primary circuit, as illustrated in the diagram.



**ASSOCIATED READING**

[http://www.oilstoves.co.uk/webdocs/brochures/Franco\\_Belge\\_Diva\\_Cooker\\_Brochure\\_Front\\_Page\\_&\\_Back.pdf](http://www.oilstoves.co.uk/webdocs/brochures/Franco_Belge_Diva_Cooker_Brochure_Front_Page_&_Back.pdf)

[http://www.oilstoves.co.uk/webdocs/brochures/Franco\\_Belge\\_Diva\\_Cooker\\_Inside\\_Pages.pdf](http://www.oilstoves.co.uk/webdocs/brochures/Franco_Belge_Diva_Cooker_Inside_Pages.pdf)

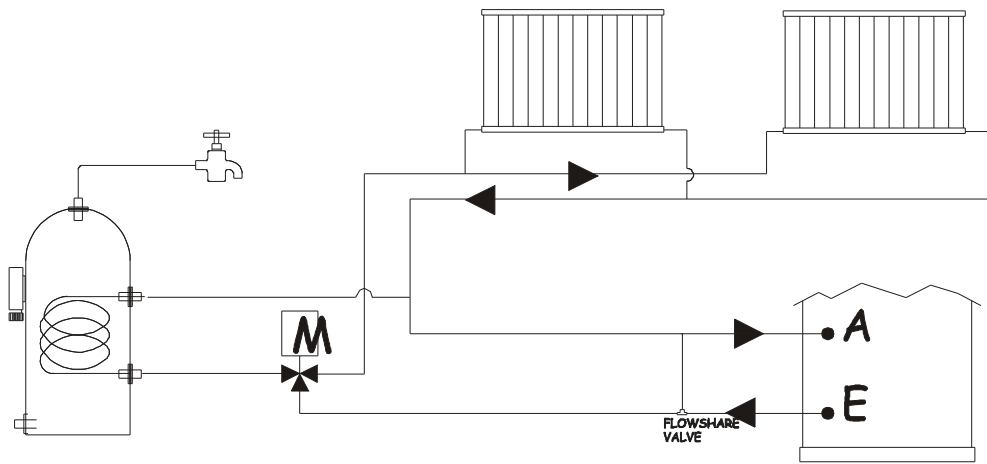
[http://www.thermorossi.com/inglese/01\\_home.html](http://www.thermorossi.com/inglese/01_home.html)

**PLUMBING DIAGRAMS FOR-:**

**WOOD PELLET BURNING STOVES AND BOILERS**

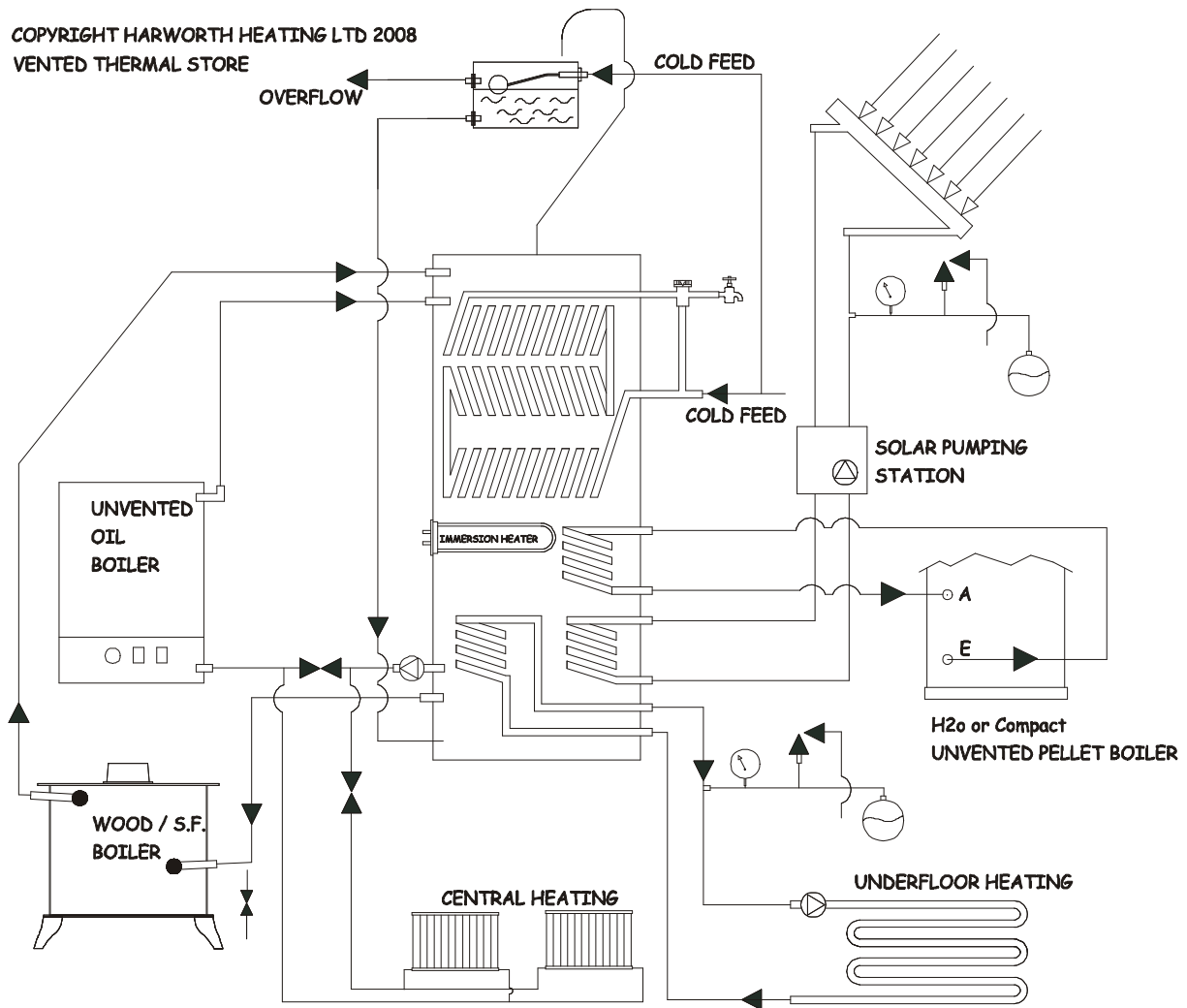
**H2O 18 AND COMPACT 18 THREE PORT VALVE SYSTEM**

. (SCHEMATIC ONLY)



## PLUMBING DETAILS FOR H2O 18 AND COMPACT 18 PELLET BOILER IN THERMAL STORE

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VENTED THERMAL STORE



Thermal stores can be designed to integrate a variety of different heat sources and allow both hot water and central heating to be carried out at maximum economy.

The size of the store is determined by the heat load of the property and hot water flow rates required.

In the illustration, the solar coil is used to provide heat into the thermal store, which can be used for hot water production and as a contribution to central heating.

The wood stove, open vented oil or gas boiler, and immersion heater are all optional.

If unvented appliances are used a different version of the Thermal store can be used but this would preclude the optional wood stove, if a wood stove option is required then the vented Thermal Store must be used and it would require fitting on the floor above the wood stove as heat from the stove must reach the store via natural gravity flow.

Depending upon the output of the wood stove boiler and the capacity of the store, it may also be necessary to fit a heat leak radiator on the hot flow to the store.

Hot water for domestic use is provided via heat exchange from the large coil, with the correct size heat sources, flow rates of up to 25 litres per minute can be achieved.

Note that the under floor option uses a sealed system as opposed to a vented system to stop cross contamination from the other heat sources.

**ASSOCIATED READING**

[http://www.oilstoves.co.uk/webdocs/brochures/THERMOROSSI Ecotherm H2O Compact  
New Italian & English Brochure.pdf](http://www.oilstoves.co.uk/webdocs/brochures/THERMOROSSI_Ecotherm_H2O_Compact_New_Italian_&_English_Brochure.pdf)

[http://www.thermorossi.com/inglese/01\\_home.html](http://www.thermorossi.com/inglese/01_home.html)

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Read in conjunction with-:

**REDUCE YOUR HEATING COSTS.**

**WWW.OILSTOVES.CO.UK**