HOT WATER SYSTEM

A) There are two connections, both 1" BSP Male on the left hand side. Follow general notes below.

B) The EWB or DE-LUXE boiler is plain mild steel and capable of running a radiator in addition to domestic hot water.

C) General Notes on Water System :-

1) The cooker will produce hot water at differing rates depending on how it is operated. Heating control is manual, no thermostat is fitted.

2) The system must be designed to cope with loads between the maximum and minimum output. When the central heating load is turned off there must be sufficient gravity load to absorb 2.6 kW for periods when the oven is being used for cooking, e.g. Domestic hot water plus gravity operated radiator.

3) An indirect storage cylinder is essential for domestic hot water supply, irrespective of whether the water supply is hard or soft. Minimum capacity 30 gallons. Cylinder should be as close to cooker as possible.

4) The central heating circuit may be gravity circulation, but a pumped system is preferred.

To allow heat from the boiler to be absorbed should there be a pump stoppage on an accelerated circuit, the primary domestic supply must be gravity operated.

5) Installation as a central heating system alone, i.e. without a domestic supply, is not recommended as the boiler will produce heat when the cooker is in use, irrespective of central heating demand, and primary absorption must be provided.

6) Whichever system is chosen the layout must follow established heating engineering practice.

To avoid trapping air in the boiler a 1" BSP connection must be used on the flow and return tapping, and any reduction in pipe size thereafter being made on a vertical rising pipe. The cooker must be level when fitted and the flow pipe must rise from the boiler. A drain cock must be fitted on the lowest point of the return pipe and a vent to atmosphere at the highest point of each circuit.

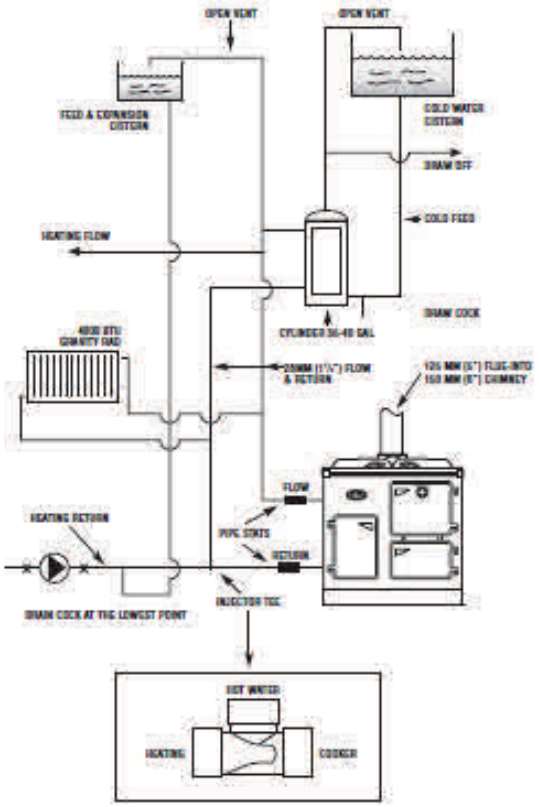
7) The cylinder and pipe work should be lagged to avoid heat loss.

8) The static head must not exceed 60 feet of water.

9) A drain cock should be fitted to the lowest part of the circuit.

10) The total water capacity of the boiler is 4 litres.

11) A heat leak radiator should be fitted to absorb any excess heat that may be produced.

12) The system must be properly vented and a double-feed indirect cylinder to current BS 1566 standard is required on a combined hot water and central heating system.

Typical DHW Gravity System