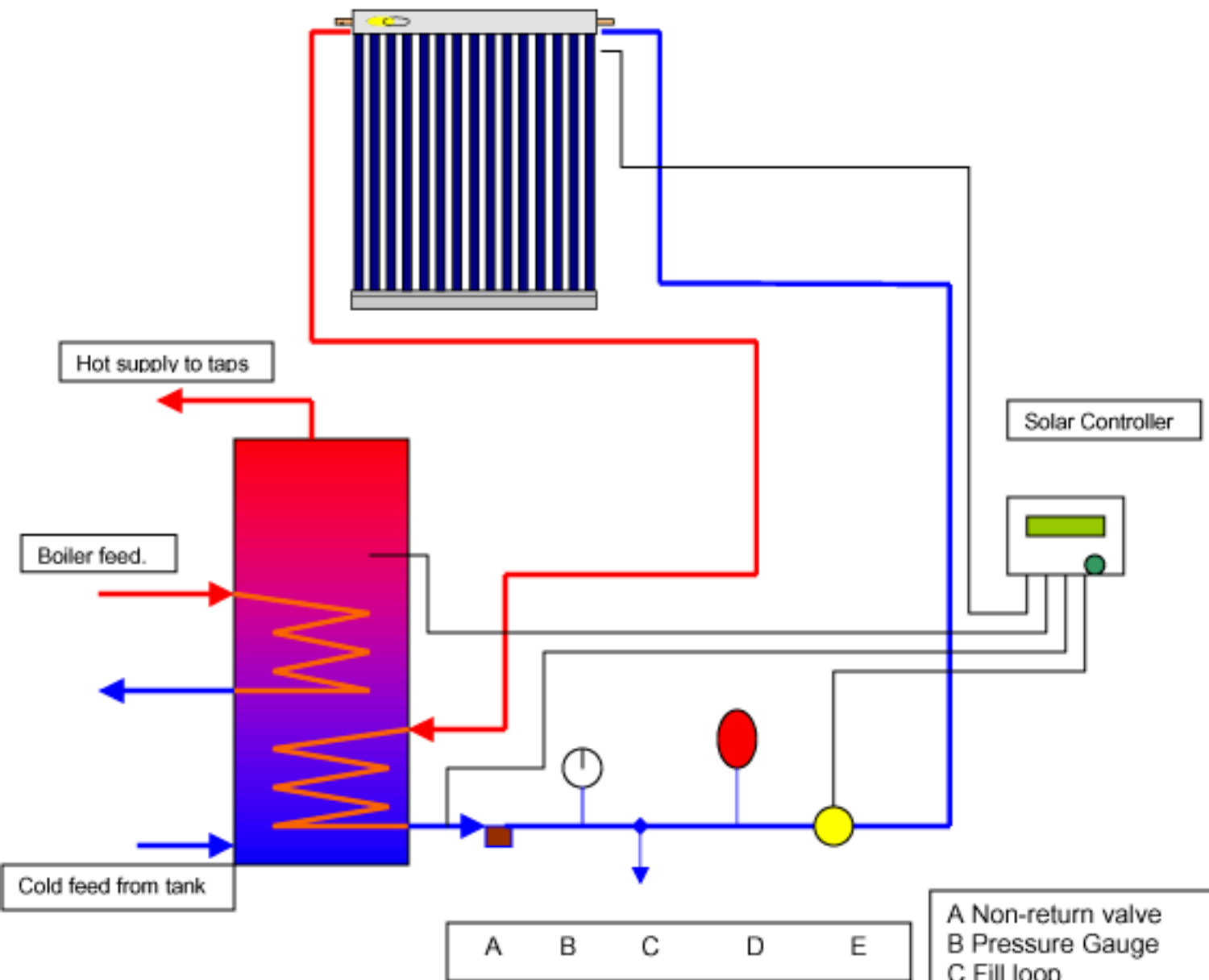




Diagram of Solar Twin Coil System



A B C D E

- A Non-return valve
- B Pressure Gauge
- C Fill loop
- D Expansion Vessel
- E Solar Pump

The existing cylinder has been replaced by a tank with two coils. The lower coil is connected to the solar collector and is the primary heat source and upper coil is connected to the boiler and supplements any short fall. The solar controller detects the temperature rise in the collector and operates the pump. The water is heated by the solar collector and rises to the top of the cylinder and the water temperature rises.