

FARMHOUSE WITH BOILER ROOM

In a remote boiler room a Baxi Multi heat 2.5 600F Boiler produces hot water for the Farmhouse. At present the fuel is wood pellets but the boiler can be adapted to burn wood chips or even grain.

A 23m. underground submain of insulated pipes connects the boiler room to the main house. Then the hot water is delivered to a 300L. heat store cylinder containing a high efficiency heat exchange coil which delivers mains pressure domestic hot water to the bathrooms and kitchen. The cylinder also supplies a distribution system for three separate radiator circuits:



- 1) Upstairs radiators.
- 2) Downstairs radiators.
- 3) Towel rails and airing cupboard.

These three circuits are separately timed to allow complete control.

The cylinder has a 3KW immersion heater fitted for optional use in Summer.

The cylinder also has a coil to accept input from the solar panels on the roof and the control box has a contactor to isolate the immersion heater if the cylinder temperature rises above the set point of 90*.

Similarly, if the cylinder is below the set point of 40*, the radiator circuits are isolated to allow temperature recovery.

The system has been cleansed, flushed and protected with Fernox F1 and filled to a standard ½ bar pressure and sealed. The heat expansion is absorbed by an 80L. Expansion vessel in the boiler room. There is a temperature and pressure relief valve on the cylinder and a pressure relief valve in the boiler room.

