

## NRG Zone - System Schematic -22

### Note:

The patented principle of the NRG Zone manifold isolates the lowest temperature water returning from zones and directs it back to condensing boilers to promote maximum condensation.

At the same time it allows any unused heat from the boilers to have a direct bypass back to the Solid Fuel appliance to minimise condensation in the Solid Fuel appliance. This is beneficial since condensation in the solid fuel appliance can lead to corrosion in the appliance.

In this way each boiler's efficiency is uniquely maximised with a positive affect on both running costs and heat-up time.



### Primary Priority Heating Method

With this solid fuel arrangement the stove's heat is made available to the heating circuits in the NRGZone before it is allowed to pass through the primary heat leak DHW cylinder.

The temperature of the DHW then can be controlled by a combination of the pipe stat on the primary return to the stove and the DHW control stat on the cylinder which will allow excessive heat to be taken by the heating zones.

As with all solid fuel 'drop systems' it is critical to insulate the primary pipe work and the piping to the DHW Cylinder very well to minimise heat drift back out of the cylinder when the stove cools.

The Non Return Valve on the secondary DHW coil is also used to prevent any back circulation of the stored hot water from drifting back out of the cylinder to the system

