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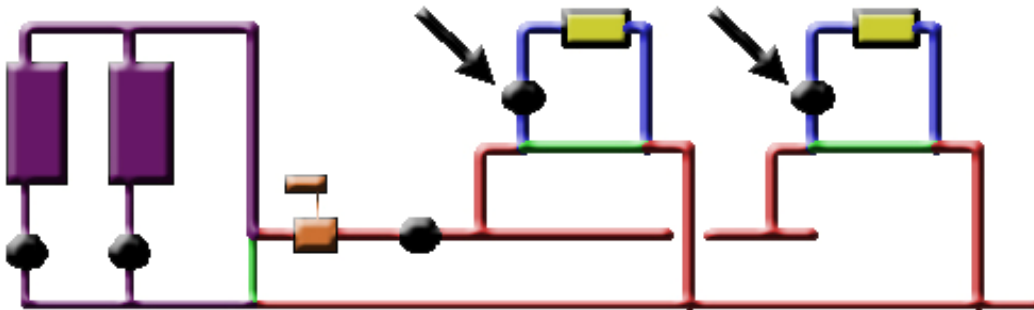
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August 17, 2009 ~ Monday Morning Minutes:

Primary Secondary Tertiary Systems for High ΔT Hydronic Heating Systems

Last week the MMM article topic was primary secondary piping basics. Today we will describe some terms before looking at a more complex system.



In our example above the **purple** piping is normally called the “Primary System”. This is the system with the boilers and boiler circulating pumps.

The **red** piping is normally called the “Secondary System”.

The **blue** piping is normally called the “Tertiary System” This can be a coil with pump or other terminal out in the system. It may also be a series of secondary-tertiary loops in the boiler mechanical room. The tertiary system could contain multiple coils or terminal units.

The **green** piping is “The common pipe”. The pressure drop in this pipe is “common” to the pump head calculations of the two adjoining systems. Systems are designed to keep the pressure drop in this pipe very low.

The red pipe with the **arrow** is referred to as the “Bridge”.

Next week we will discuss having secondary and tertiary loops with different supply temperatures and begin the discussion about changing delta T.

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The Heating Season
Is Almost Here...

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You
Ready?**

Do You Have
The Parts Handy
To Repair
Your Controls?



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