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September 7, 2009 ~ Monday Morning Minutes:

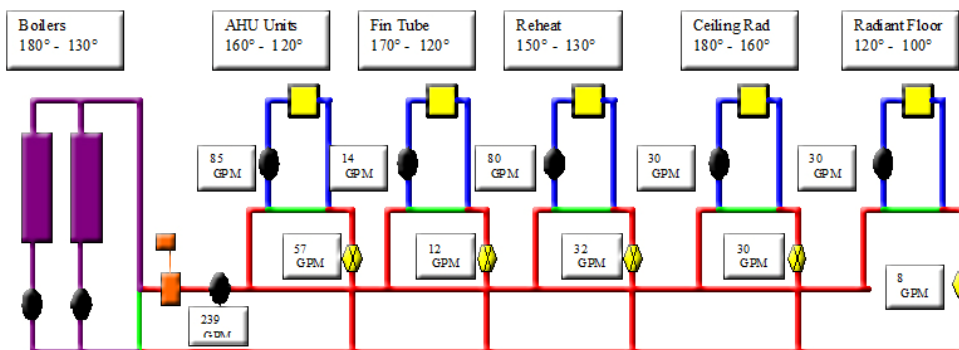
High ΔT Hydronic Heating Systems (Part 4)

Last week, we created a chart showing the flow rates and temperatures in an example system so we could maximize the delta T at the boilers. Today we will show how this system example looks when laid out as a primary secondary tertiary system. Please note we are not showing the complete detail of the system trim which we will detail in a later article.

Here is our example:

Zone Name	BTUH	Secondary EWT	Secondary LTW	GPM Secondary	Primary EWT	Primary LWT	Primary GPM
AHU Units	1,700,000	160	120	85	180	120	57
Fin Tube	350,000	170	120	14	180	120	12
Reheat coils	800,000	150	130	80	180	130	32
Radiant Floor	300,000	120	100	30	180	100	8
Ceiling Radiant	300,000	180	160	30	180	160	30
Total	3,450,000			239	180	130	139

Here is a P-S-T layout:



In the next two articles we will apply Laars and Aereco boilers to this system example

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