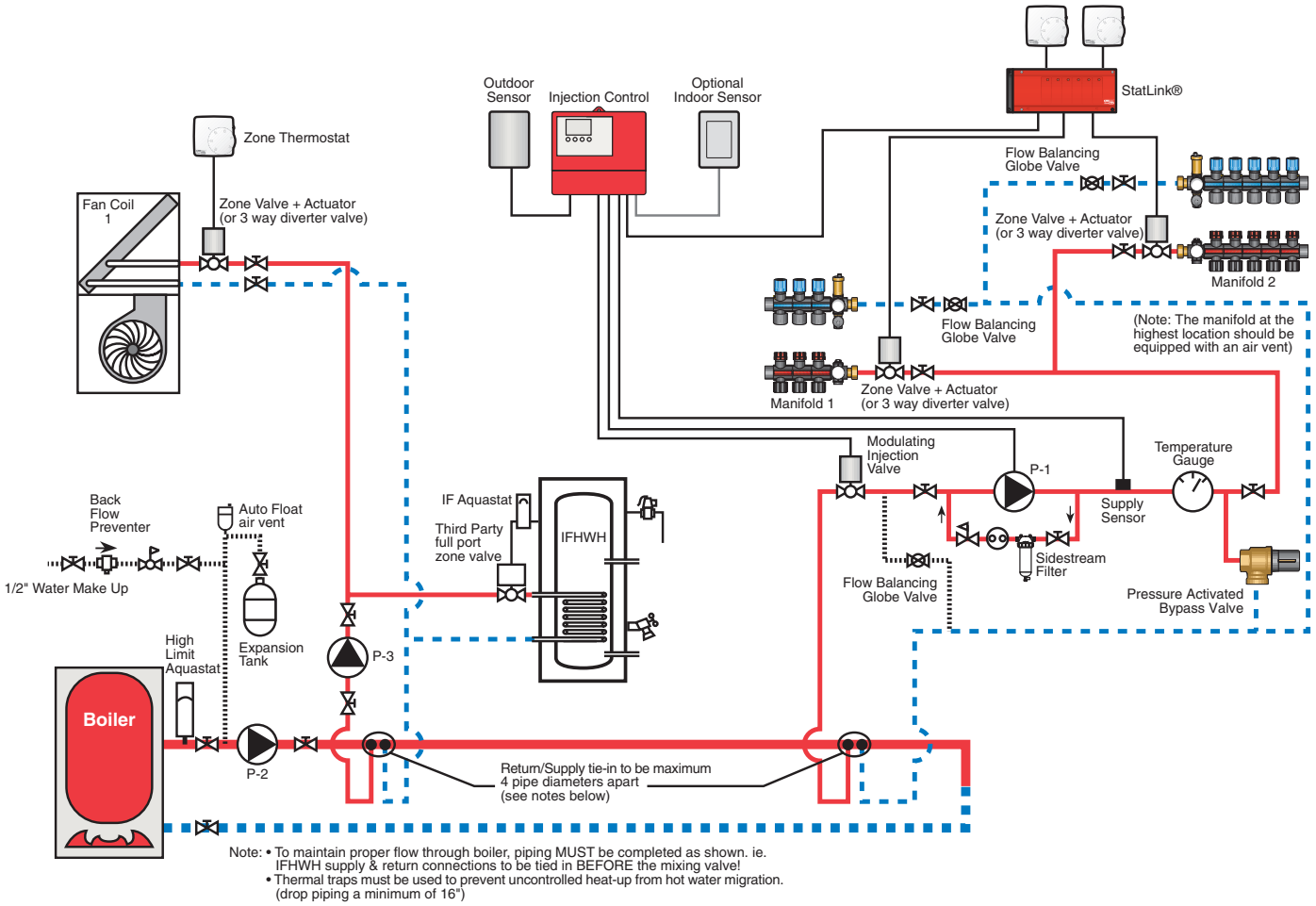
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3 Circuits (Automatic Injection Control w/ StatLink®)

July 17, 2008 - **TECH 6.6**

Application: **Electronic Injection**

Cast iron high mass boiler c/w 3 circuits (Fully-automatic)
(one low temp. injection circuit - automatic te mpering of the water temperature for floor heating plus StatLink® controls)
(two high temp. circuits; fan coil and domestic indirect fired hot water heater)



Note: • To maintain proper flow through boiler, piping MUST be completed as shown. ie. IFHWH supply & return connections to be tied in BEFORE the mixing valve!
• Thermal traps must be used to prevent uncontrolled heat-up from hot water migration. (drop piping a minimum of 16")

Note:

- Air vents, expansion tanks, pressure relief valves etc. For boiler as per local codes.
- Drawings are for HeatLink® suggested system layout only. User must determine if system layout will work for their particular application!
- Use isolation ball valves for all circuits and components.

Control Sequence:

- Indoor/outdoor injection control unit provides the correct water temperature for the HeatLink® radiant floor system. By correlating outside air temperature, supply water temp. & room temperature, the control unit then operates the injection valve & motor which in turn modulates the supply water temperature to the floor. For electrical rough in instructions use either ELECT 1.4 (for Standard 3 Wire) or ELECT 1.8 (for StatLink Wiring). (**Note:** when using instructions ELECT 1.8, ignore 4-way mixing valve requirements).
- Temperature balancing bypass to be adjusted as per manufacturer's instructions.
- System pump (P-1) to be activated by the indoor/outdoor injection control. Primary pump (P-2) to be opened by the internal boiler relay. P-3 to be operated by relay. Allow for a separate disconnect switches. (Note: Pressure activated bypass for P-1 is required to maintain consistent flow through manifolds.