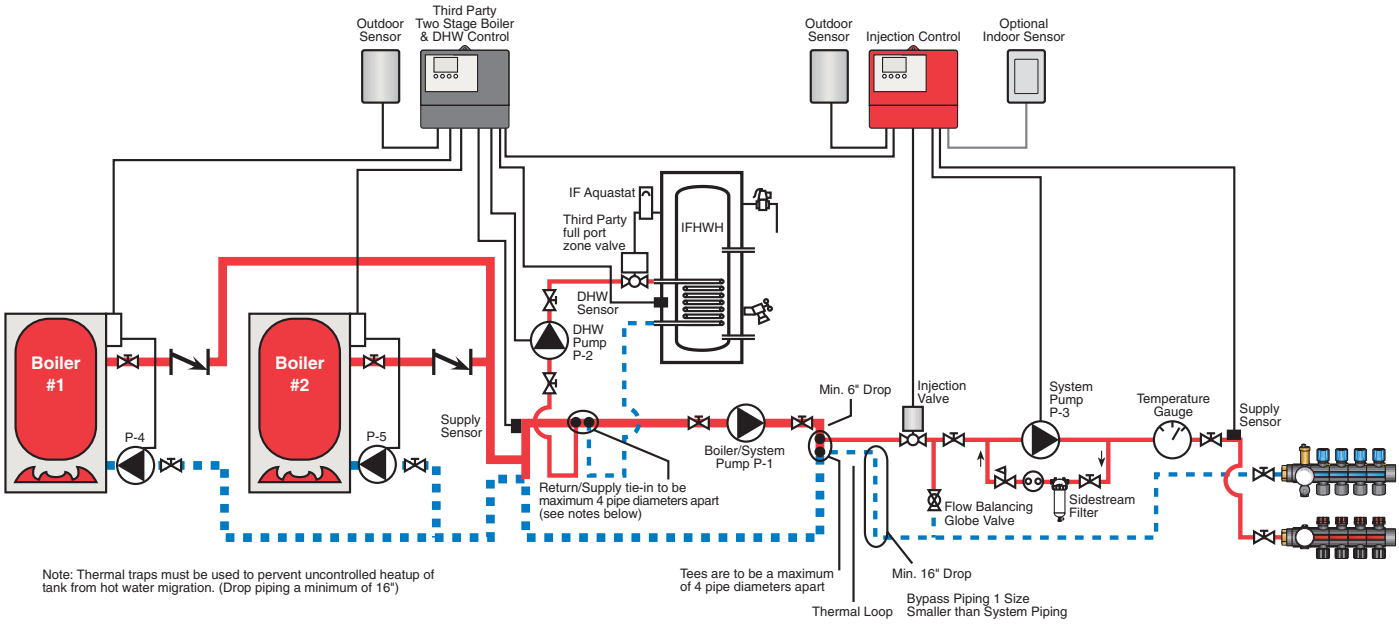
2 Circuits (Fully Automatic Injection Control w/ IFHWH)

July 17, 2008 - **TECH 6.7**

Application: **Electronic Injection Plus Boiler Staging Control**

Multiple cast iron high mass boilers c/w 2 circuits (Fully-automatic)
(one low temp. injection circuit - automatic tempering of the water temperature for floor heating)
(one high temp. circuit; domestic indirect fired hot water heater)



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 ELECT 1.4 (for Standard 3 Wire).
- Temperature balancing bypass to be adjusted as per manufacturer's instructions.
- System pump (P-3) to be activated by the indoor/outdoor injection control. Boiler / system pump (P-1) to be activated by the boiler staging & IFHWH staging control. (P-4) and (P-5) boiler pumps to be activated by internal boiler relays. Allow for a separate disconnect switches. (Note: If multiple manifolds are used with multiple thermostats & actuators, then a pressure activated bypass for P-1 is required to maintain consistent flow through manifolds.