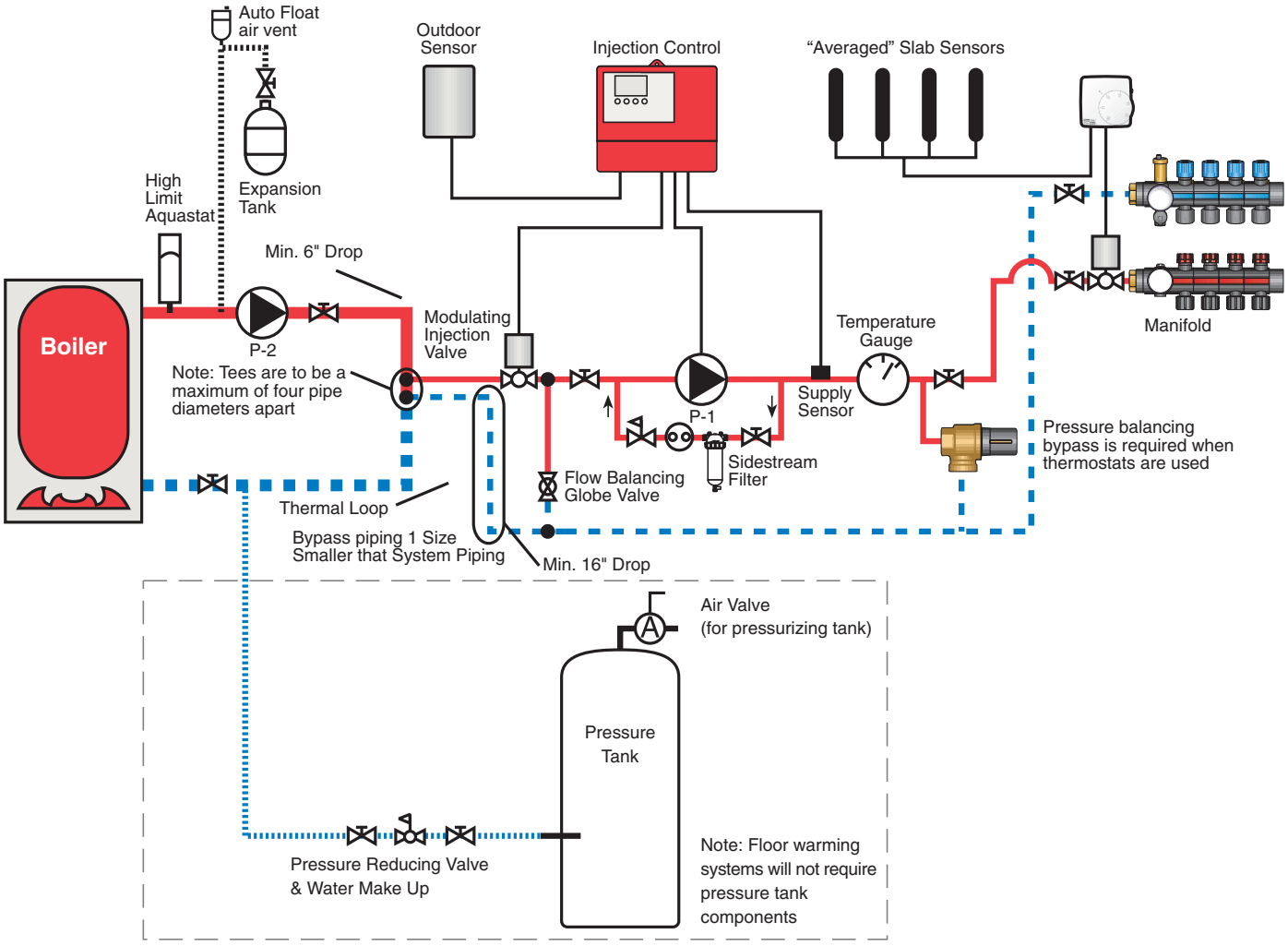
# 1 Circuit (Auto Injection Ctrl. of Fl. Wm. or Frost Protection)

July 17, 2008 - **TECH 6.8**

***Application:*** **Floor Warming / Subsoil Frost Protection**

Modulating Condensing Boiler and 1 circuit (Fully-automatic)
(one low temp. injection circuit - automatic tempering of the water temperature for floor heating)




**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 & 1.5 (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.