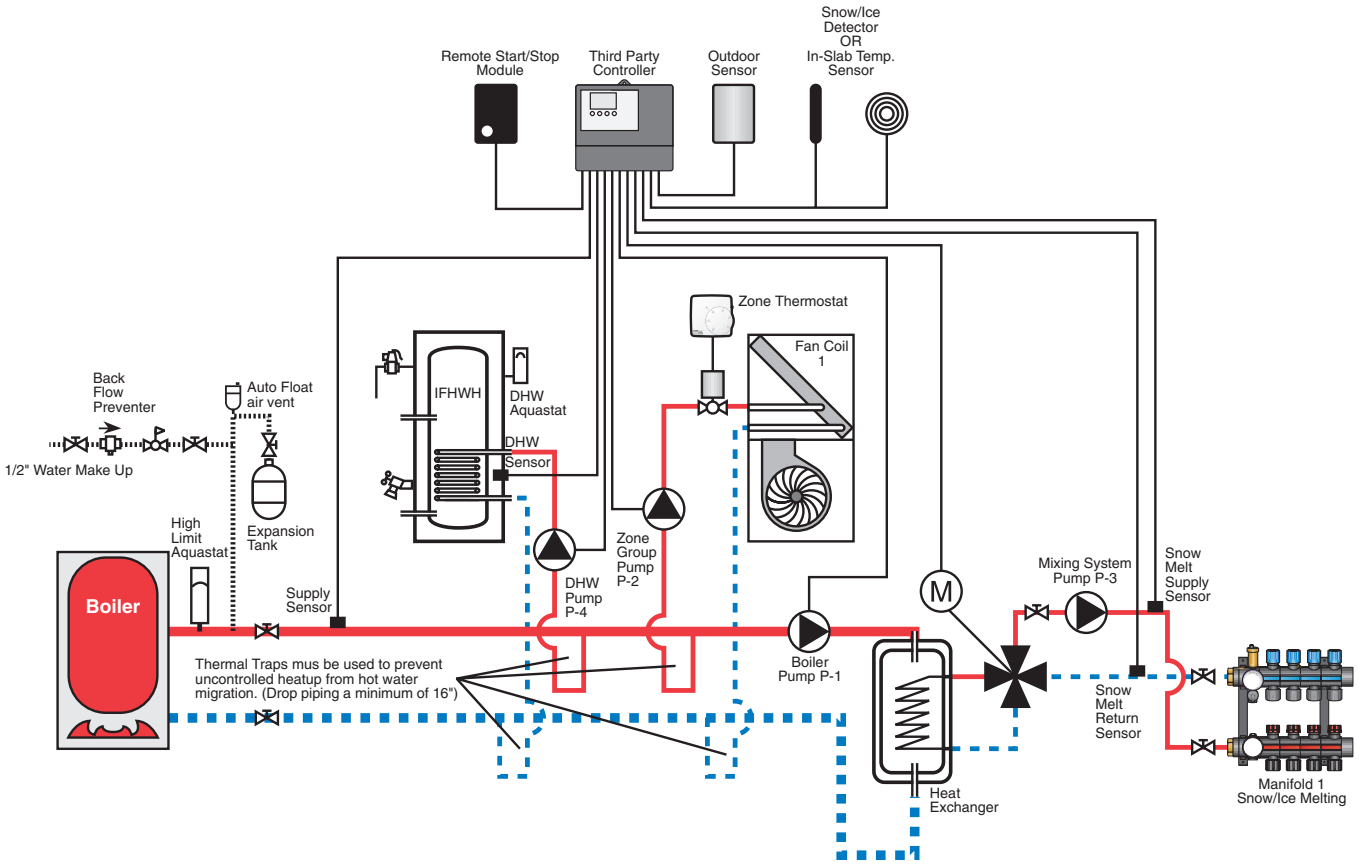
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# 3 Circuit (Semi-Automatic Snowmelting plus Fan coil & IFHWH)

October 13, 2001 - **SNOW 2.6**

***Application:*** **Cast iron high mass boiler c/w 3 circuits**
(one low temp. circuit - semi-automatic modulating water temp. for snow melting)
(two high temp. circuits; indirect fired hot water heater plus fan coil)




**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.
- Expansion tank sizing for the snow melting circuit to take into account the ratio of glycol freeze protection in the system.

**Control Sequence:**

- Indoor/outdoor controller has two heat curve settings plus domestic hot water tank control. By correlating outside air temperature, snow melt supply water temp., & snow melt return sensor the control unit then activates the 4-way mixing valve motor which in turn modulates the supply water temperature to the floors/slabs. (See ELECT 1.8 - 1.9 & 1.12-1.13 for wiring specifications). The fan coil supply water will be regulated by an independent heat curve setting. Upon DHW heat demand, the boiler is fired to its operating limit setting.
- Boiler to fire by activation through a relay of the controller (see ELECT 2.6).
- Pumps (P-1 to P-4) to be activated by controller (see ELECT 2.6).
- All pumps to be wired with their own disconnect switches.