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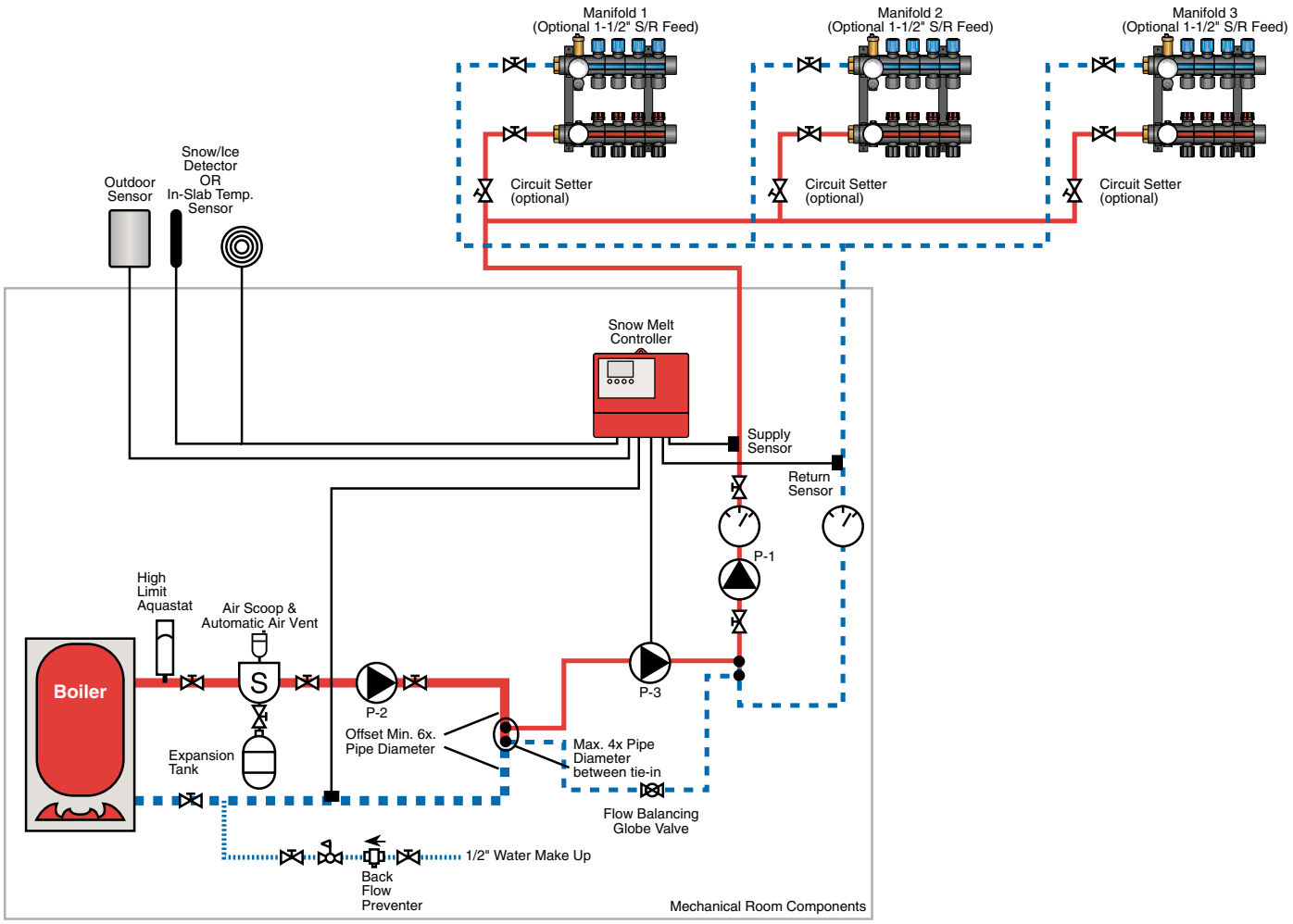
1 Circuit (Fully Automatic Snowmelting c/w Dedicated Boiler)

September 6, 2006 - **SNOW 2.9**

Application:

Cast iron high mass dedicated boiler c/w fully automatic snow melt circuit

(one low temp. circuit - fully automatic modulating water temperature for snow melting c/w snow/ice detector and in-slab sensor.)



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:

- Snow melt control unit provides the correct water temperature for the HeatLink® snow melting system. By correlating outside air temperature, surface moisture, supply and return system water, boiler return water & slab temperature for the snow melt circuit, the control unit then activates the 4-way mixing valve motor which in turn modulates the supply water temperature to the snow melting circuits (see ELECT 1.12 & 1.13).
- Boiler to fire either: 1) Independently on its own operating aquastat which in turn controls boiler water temperature or 2) By activation through a relay of the controllers. APPLICATION TO USE OPTION (____). (Note: Wire gas valve in series with high limit safety aquastat.)
- Pumps (P-1 & P-2) to be wired directly with their own disconnect switches. Pump P-1 & P-2 to operate either: 1) Continually or 2) By activation through a relay of the snowmelt controller (see ELECT 2.9).
  FOR THIS PARTICULAR APPLICATION P-1 & P-2 TO OPERATE AS PER OPTION (_____).